APPENDIX E

SAN DIEGO COUNTY, HIGHWAY 75 DATA

This appendix presents the following:

Deflection Data San Diego Hwy 75 (11-230103)

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DEFLECTION SUMMARY SHEET

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

EA #	DIST.	COUNTY	ROUTE	PROJECT LIMITS	OPERATOR	DATE
11-230101	11	SD	75	[illegible]	Beck	06/19/02

TEST# 1 P.M. 17.30 TO 17.10 L # 2 OF 2 DIRECT: SB
SURFACE CHIP SEAL BASE CTB WEATHER clear
CONTROLS? NO , TEMP AIR 67 SURFACE 81

DEFLECTION DATA			
AC Th.	TOTAL Th.	MEAN	80TH
0.25 FT	0.72 FT	0.008 IN	0.009 IN
76 MM	219 MM	0.203 MM	0.227 MM

ALLIGATOR = NONE TRANS = CONTINUOUS LONG = OCCASIONAL D/OUT = NONE
D/HOLES = NONE PUMP = NONE CORRU = NONE BLEED = NONE
PATCH = NONE RUTTING = NONE RAVEL = NONE

COMMENTS : FIRST PHOTO SHOWS ALLIGATOR CRACKING AT BEGINNING OF PROJECT. THIS IS NOT INCLUDED IN THE TEST SECTION. ISOLATED TO OCCASIONAL EDGE CRACKING THROUGHOUT PROJECT. IS LIKELY TO BE EDGE OF CTB BASE. ENITRE PROJECT IS LIGHTLY CRACK SEALED

TEST# 2 P.M. 16.30 TO 16.10 L # 2 OF 2 DIRECT: SB
SURFACE CHIP SEAL BASE CTB WEATHER clear
CONTROLS? NO , TEMP AIR 68 SURFACE 90

DEFLECTION DATA			
AC Th.	TOTAL Th.	MEAN	80TH
0.30 FT	0.80 FT	0.008 IN	0.009 IN
91 MM	244 MM	0.192 MM	0.223 MM

ALLIGATOR = INTERMITTENT TRANS = NC LONG = ISOLATED D/OUT = NONE
D/HOLES = NONE PUMP = NONE CORRU = NONE BLEED = NONE
PATCH = NONE RUTTING = NONE RAVEL = NONE

COMMENTS : SOME AREAS HAVE THIN BLANKET OVER CHIP SEAL

TEST# 3 P.M. 15.70 TO 15.50 L # 2 OF 2 DIRECT: SB
SURFACE CHIP SEAL BASE CTB WEATHER clear
CONTROLS? NO , TEMP AIR 72 SURFACE 98

DEFLECTION DATA			
AC Th.	TOTAL Th.	MEAN	80TH
0.40 FT	0.40 FT	0.011 IN	0.012 IN
122 MM	122 MM	0.289 MM	0.311 MM

ALLIGATOR = NC TRANS = NONE LONG = NONE D/OUT = NONE
D/HOLES = NONE PUMP = NONE CORRU = NONE BLEED = NONE
PATCH = NONE RUTTING = NONE RAVEL = NONE

COMMENTS : DUE TO ROAD WIDENING LANE HAS TWO BASES. LEFT WHEEL TRACK IS CHIP SEAL OVER CTB, RIGHT WHEEL TRACK IS DGAC OVER AGG BASE - SEE PHOTOS. SPLIT BEGINS AT PM 15.8 AND ENDS AT PM 15.4. AFTER PM 15.5 RETURNS TO CHIP SEAL OVER CTB. SECOND CORE IN LEFT WHEEL TRACK WAS 0.29 FT DGAC WITH CTB BASE (0.50 FT)

TEST# 4 P.M. 14.70 TO 14.50 L # 2 OF 2 DIRECT: SB
SURFACE CHIP SEAL BASE CTB WEATHER clear
CONTROLS? NO , TEMP AIR 88 SURFACE 97

DEFLECTION DATA			
AC Th.	TOTAL Th.	MEAN	80TH
0.30 FT	0.88 FT	0.008 IN	0.010 IN
91 MM	268 MM	0.209 MM	0.251 MM

ALLIGATOR = INTERMITTENT TRANS = CONTINUOUS LONG = NONE D/OUT = NONE
D/HOLES = NONE PUMP = NONE CORRU = NONE BLEED = NONE
PATCH = NONE RUTTING = NONE RAVEL = NONE

COMMENTS :

TEST# 5 P.M. 13.60 TO 13.40 L # 2 OF 2 DIRECT: SB
SURFACE CHIP SEAL BASE CTB WEATHER clear
CONTROLS? NO , TEMP AIR SURFACE

DEFLECTION DATA			
AC Th.	TOTAL Th.	MEAN	80TH
0.26 FT	0.81 FT	0.007 IN	0.008 IN
79 MM	247 MM	0.186 MM	0.194 MM

ALLIGATOR = NONE TRANS = CONTINUOUS LONG = NONE D/OUT = NONE
D/HOLES = NONE PUMP = NONE CORRU = NONE BLEED = NONE
PATCH = NONE RUTTING = NONE RAVEL = NONE

SHEET : 1 OF 2

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DEFLECTION SUMMARY SHEET

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

EA #	DIST.	COUNTY	ROUTE	PROJECT LIMITS	OPERATOR	DATE
11-230104	11	SD	75	11/17.4	Beck	06/19/02

COMMENTS : NEW SPLIT SECTION BEGINS AT PM 14.4 AND ENDS AT PM 14.2 FINAL SPLIT SECTION BEGINS AT PM 13.87 AND ENDS AT PM 13.78

TEST# 6 P.M. 12.60 TO 12.40 L # 2 OF 2 DIRECT: SB

SURFACE CHIP SEAL BASE CTB WEATHER clear
CONTROLS? NO TEMP AIR 78 SURFACE 112

DEFLECTION DATA			
AC Th.	TOTAL Th.	MEAN	80TH
0.26 FT	0.79 FT	0.009 IN	0.010 IN
79 MM	241 MM	0.233 MM	0.261 MM

ALLIGATOR = NONE TRANS = CONTINUOUS LONG = NONE D/OUT = NONE
D/HOLES = NONE PUMP = NONE CORRU = NONE BLEED = NONE
PATCH = NONE RUTTING = NONE RAVEL = NONE

COMMENTS :

TEST# 7 P.M. 11.50 TO 11.30 L # 2 OF 2 DIRECT: SB

SURFACE CHIP SEAL BASE CTB WEATHER clear
CONTROLS? NO TEMP AIR 85 SURFACE 114

DEFLECTION DATA			
AC Th.	TOTAL Th.	MEAN	80TH
0.24 FT	0.74 FT	0.011 IN	0.013 IN
73 MM	226 MM	0.280 MM	0.316 MM

ALLIGATOR = OCCASIONAL TRANS = CONTINUOUS LONG = INTERMITTENT D/OUT = NONE
D/HOLES = NONE PUMP = NONE CORRU = NONE BLEED = NONE
PATCH = NONE RUTTING = NONE RAVEL = NONE

COMMENTS :

SHEET : 2 OF 2

FLEXIBLE PAVEMENT DEFLECTION DATA

TA # : 11-230101 DYNAFLECT TOW VEHICLE C# JILS-1313 SHEET : 1 OF 7

DIST	COUNTY	ROUTE	PROJECT LIMITS	DATE	OPERATOR	WEATHER
11	SD	75	11.7/17.4	6/19/02	Beck	clear

TEST	FROM P.M.	TO P.M.	DIRECTION	LANE	AIR TEMP	SURFACE TEMP
1	17.30	17.10	SB	2 of 2	67 F	81 F

SURFACE	CHIP SEAL	TEST INTERVALS 52FT UNLESS NOTED	(ft)	VERTICAL CONTROLS?	NO	IF YES,

Points	Data	Converted	Notes	allig	trans	long	d/out	pot	pump	corru	bleed	o/lay	rut	ravel
	in. x 10⁻³	inches	Severity	1/4"	1/4"	1/4"	util							
1	8.323	0.009	PHOTO		1	1								
2	9.161	0.010			1	1								
3	6.905	0.007			1	1								
4	6.355	0.007			1									
5	6.779	0.007	PHOTO		1		1							
6	6.450	0.007	PHOTO		1									
7	6.629	0.007	CORE #4		1									
8	7.589	0.008	PHOTO		1									
9	8.291	0.009			1									
10	7.313	0.008			1									
11	8.976	0.010		1	1									
12	8.556	0.009			1									
13	9.568	0.010			1									
14	5.821	0.006			1									
15	6.547	0.007			1									
16	7.938	0.008			1									
17	6.604	0.007			1									
18	6.229	0.007			1									
19	7.925	0.008			1									
20	7.704	0.008			1									
21	6.950	0.007			1									
			Totals	1	21	3	1	0	0	0	0	0	0	0

STD Dev	0.001
Mean	0.008
80TH	0.009

NOTE: CONVERSION TO DEFLECTION IS BASED UPON APRIL 2002 CORRELATION CURVES

CORE DATA

AC CORE COND.	AC CORE THICKNESS	TOTAL CORE THICKNESS	BASE MATERIAL	BASE THICKNESS
INTACT	0.25 (ft)	0.72 (ft)	CTB	0.47 (ft)

GENERAL COMMENTS

FIRST PHOTO SHOWS ALLIGATOR CRACKING AT BEGINNING OF PROJECT. THIS IS NOT INCLUDED IN THE TEST SECTION. ISOLATED TO OCCASIONAL EDGE CRACKING THROUGHOUT PROJECT. IS LIKELY TO BE EDGE OF CTB BASE. ENITRE PROJECT IS LIGHTLY CRACK SEALED

FLEXIBLE PAVEMENT DEFLECTION DATA

EA # : **11-230101** **DYNAFLECT TOW VEHICLE C#** JILS-1313 SHEET : 2 OF 7

DIST	COUNTY	ROUTE	PROJECT LIMITS	DATE	OPERATOR	WEATHER
11	SD	75	11.7 17.4	6/19/02	Beck	clear

TEST	FROM P.M.	TO P.M.	DIRECTION	LANE	AIR TEMP	SURFACE TEMP
2	16.30	16.10	SB	2 of 2	68 F	90 F

SURFACE	CHIP SEAL	TEST INTERVALS 52FT UNLESS NOTED (ft)	VERTICAL CONTROLS? NO	IF YES,

Points	Data	Converted	Notes	allig	trans	long	d/out	pot	pump	corru	bleed	o/lay	rut	ravel
	in. x 10⁻³	inches	Severity	1/4"	1/4"	1/4"	util							
1	5.149	0.006	PHOTO											
2	3.926	0.004												
3	5.162	0.006												
4	6.318	0.007			1	1								
5	10.644	0.011		1	1									
6	8.571	0.009		1	1									
7	7.180	0.008	PHOTO	1	1									
8	6.869	0.007	PHOTO	1	1									
9	7.007	0.007		1	1			1						
10	6.999	0.007		1	1									
11	7.777	0.008		1	1		1							
12	6.379	0.007		1	1									
13	7.828	0.008			1	1								
14	7.498	0.008			1									
15	6.693	0.007		1	1									
16	7.442	0.008		1	1									
17	6.818	0.007	PHOTO		1									
18	6.696	0.007			1									
19	8.211	0.009	CORE		1									
20	6.819	0.007	PHOTO		1									
21	8.026	0.009												
			Totals	10	17	2	1	1	0	0	0	0	0	0

STD Dev	**0.001**
Mean	**0.008**
80TH	**0.009**

NOTE: CONVERSION TO DEFLECTION IS BASED UPON APRIL **2002** CORRELATION CURVES

CORE DATA

AC CORE COND.	AC CORE THICKNESS	TOTAL CORE THICKNESS	BASE MATERIAL	BASE THICKNESS
INTACT	0.3 (ft)	0.8 (ft)	CTB	0.5 (ft)

GENERAL COMMENTS

SOME AREAS HAVE THIN BLANKET OVER CHIP SEAL

FLEXIBLE PAVEMENT DEFLECTION DATA

EA # : **11-230101** **DYNAFLECT TOW VEHICLE C#** JILS-1313 SHEET : 3 OF 7

DIST	COUNTY	ROUTE	PROJECT LIMITS	DATE	OPERATOR	WEATHER
11	SD	75	11 / 17.4	6/19/02	Beck	clear

TEST	FROM P.M.	TO P.M.	DIRECTION	LANE	AIR TEMP	SURFACE TEMP
3	15.70	15.50	SB	2 of 2	72 F	98 F

SURFACE	CHIP SEAL	TEST INTERVALS 52FT UNLESS NOTED	(ft)	VERTICAL CONTROLS?	NO	IF YES,

Points	Data	Converted	Notes	allig	trans	long	d/out	pot	pump	corru	bleed	o/lay	rut	ravel
	in. x 10⁻³	inches	Severity	1/4"										
1	10.952	0.012	PHOTO											
2	10.355	0.011												
3	9.986	0.011		1										
4	10.621	0.011		1										
5	9.599	0.010		1										
6	9.545	0.010		1										
7	9.619	0.010	PHOTO	1										
8	9.359	0.010	2 CORES	1										
9	10.260	0.011	PHOTO	1										
10	9.358	0.010	PHOTO	1										
11	11.409	0.012		1										
12	10.914	0.012		1										
13	11.073	0.012		1										
14	10.013	0.011	PHOTO	1										
15	10.109	0.011		1										
[illegible]	10.891	0.012		1										
17	11.044	0.012		1										
18	11.771	0.013		1										
19	11.517	0.012		1										
20	12.510	0.013												
21	12.462	0.013												
			Totals	17	0	0	0	0	0	0	0	0	0	0

STD Dev	**0.001**
Mean	**0.011**
80TH	**0.012**

NOTE: CONVERSION TO DEFLECTION IS BASED UPON APRIL **2002** CORRELATION CURVES

CORE DATA

AC CORE COND.	AC CORE THICKNESS	TOTAL CORE THICKNESS	BASE MATERIAL	BASE THICKNESS
INTACT	0.4 (ft)	0.4 (ft)	CTB	(ft)

GENERAL COMMENTS

DUE TO ROAD WIDENING LANE HAS TWO BASES. LEFT WHEEL TRACK IS CHIP SEAL OVER CTB, RIGHT WHEEL TRACK IS DGAC OVER AGG BASE - SEE PHOTOS. SPLIT BEGINS AT PM 15.8 AND ENDS AT PM 15.4. AFTER PM 15.5 RETURNS TO CHIP SEAL OVER CTB. SECOND CORE IN LEFT WHEEL TRACK WAS 0.29 FT DGAC WITH CTB BASE (0.50 FT)

FLEXIBLE PAVEMENT DEFLECTION DATA

EA # : 11-230101 DYNAFLECT TOW VEHICLE C# JILS-1313 SHEET : 4 OF 7

DIST	COUNTY	ROUTE	PROJECT LIMITS	DATE	OPERATOR	WEATHER
11	SD	75	11.1/17.3	6/19/02	Beck	clear

TEST	FROM P.M.	TO P.M.	DIRECTION	LANE	AIR TEMP	SURFACE TEMP
4	14.70	14.50	SB	2 of 2	68 F	97 F

SURFACE	CHIP SEAL	TEST INTERVALS 52FT UNLESS NOTED	(ft)	VERTICAL CONTROLS?	NO	IF YES,

Points	Data	Converted	Notes	allig	trans	long	d/out	pot	pump	corru	bleed	o/lay	rut	ravel
	in. x 10⁻³	inches	Severity	1/4"	1/4"									
1	6.988	0.007	PHOTO		1									
2	6.523	0.007			1									
3	8.549	0.009			1									
4	7.243	0.008		1	1									
5	7.616	0.008		1	1									
6	6.873	0.007		1	1									
7	7.024	0.008			1									
8	7.093	0.008			1									
9	11.334	0.012			1									
10	5.468	0.006			1									
11	5.426	0.006			1									
12	10.464	0.011			1									
13	7.383	0.008			1									
14	7.867	0.008			1									
15	6.513	0.007			1									
16	7.958	0.009		1	1									
17	7.953	0.009			1									
18	12.967	0.014	Rut 53	1	1									
19	6.177	0.007			1									
20	7.637	0.008		1	1									
21	6.599	0.007			1									
			Totals	6	21	0	0	0	0	0	0	0	0	0

STD Dev	**0.002**
Mean	**0.008**
80TH	**0.010**

NOTE: CONVERSION TO DEFLECTION IS BASED UPON APRIL 2002 CORRELATION CURVES

CORE DATA

AC CORE COND.	AC CORE THICKNESS	TOTAL CORE THICKNESS	BASE MATERIAL	BASE THICKNESS
INTACT	0.3 (ft)	0.88 (ft)	CTB	0.58 (ft)

GENERAL COMMENTS

FLEXIBLE PAVEMENT DEFLECTION DATA

TA # : **11-230101** **DYNAFLECT TOW VEHICLE C#** JILS-1313 SHEET : 5 OF 7

DIST	COUNTY	ROUTE	PROJECT LIMITS	DATE	OPERATOR	WEATHER
11	MNP	75	PM 17.4	6/19/02	Beck	clear

TEST	FROM P.M.	TO P.M.	DIRECTION	LANE	AIR TEMP	SURFACE TEMP
5	13.60	13.40	SB	2 of 2	F	F

SURFACE	CHIP SEAL	TEST INTERVALS 52FT UNLESS NOTED	(ft)	VERTICAL CONTROLS?	NO	IF YES,

Points	Data	Converted	Notes	allig	trans	long	d/out	pot	pump	corru	bleed	o/lay	rut	ravel
	in. x 10⁻³	inches	Severity	1/4"	1/4"			small						
1	6.927	0.007	PHOTO		1									
2	7.096	0.008		1	1									
3	6.545	0.007			1									
4	6.832	0.007			1									
5	7.348	0.008			1									
6	6.449	0.007			1									
7	6.560	0.007			1									
8	6.679	0.007			1									
9	6.448	0.007			1									
10	7.065	0.008			1									
11	7.373	0.008			1									
12	7.237	0.008			1		1							
13	6.801	0.007			1									
14	6.470	0.007			1									
15	7.628	0.008			1									
16	6.848	0.007			1									
17	6.556	0.007	CORE #1		1									
18	6.344	0.007	PHOTO		1									
19	6.714	0.007			1									
20	6.899	0.007			1									
21	6.711	0.007			1									
			Totals	1	21	0	1	0	0	0	0	0	0	0

STD Dev	**0.000**
Mean	**0.007**
80TH	**0.008**

*NOTE: CONVERSION TO DEFLECTION IS BASED UPON APRIL **2002** CORRELATION CURVES

CORE DATA

AC CORE COND.	AC CORE THICKNESS	TOTAL CORE THICKNESS	BASE MATERIAL	BASE THICKNESS
INTACT	0.26 (ft)	0.81 (ft)	CTB	0.55 (ft)

GENERAL COMMENTS

NEW SPLIT SECTION BEGINS AT PM 14.4 AND ENDS AT PM 14.2 FINAL SPLIT SECTION BEGINS AT PM 13.87 AND ENDS AT PM 13.78

FLEXIBLE PAVEMENT DEFLECTION DATA

EA # : **11-230101** **DYNAFLECT TOW VEHICLE C#** JILS-1313 SHEET : 6 OF 7

DIST	COUNTY	ROUTE	PROJECT LIMITS	DATE	OPERATOR	WEATHER
11	SD	75	11.7-17.4	6/19/02	Beck	clear

TEST	FROM P.M.	TO P.M.	DIRECTION	LANE	AIR TEMP	SURFACE TEMP
6	12.60	12.40	SB	2 of 2	78 F	112 F

SURFACE	CHIP SEAL	TEST INTERVALS 52FT UNLESS NOTED (ft)	VERTICAL CONTROLS? NO	IF YES,

Points	Data	Converted	Notes	allig	trans	long	d/out	pot	pump	corru	bleed	o/lay	rut	ravel
	in. x 10⁻³	inches	Severity		1/4"									
1	7.166	0.008	PHOTO		1									
2	7.666	0.008			1									
3	7.213	0.008			1									
4	9.004	0.010			1									
5	8.937	0.010			1									
6	7.758	0.008			1									
7	9.274	0.010			1									
8	10.538	0.011			1									
9	10.984	0.012			1									
10	8.438	0.009			1									
11	7.973	0.009			1									
12	7.076	0.008			1									
13	7.026	0.008			1									
14	8.936	0.010			1									
15	8.351	0.009			1									
16	8.105	0.009			1									
17	7.842	0.008			1									
18	9.518	0.010			1									
19	9.447	0.010	CORE		1									
20	7.431	0.008	PHOTO		1									
21	11.185	0.012			1									
			Totals	0	21	0	0	0	0	0	0	0	0	0

STD Dev	**0.001**
Mean	**0.009**
80TH	**0.010**

*NOTE: CONVERSION TO DEFLECTION IS BASED UPON APRIL 2002 CORRELATION CURVES

CORE DATA

AC CORE COND.	AC CORE THICKNESS	TOTAL CORE THICKNESS	BASE MATERIAL	BASE THICKNESS
INTACT	0.26 (ft)	0.79 (ft)	CTB	(ft)

GENERAL COMMENTS

FLEXIBLE PAVEMENT DEFLECTION DATA

FA # : **11-230101** **DYNAFLECT TOW VEHICLE C#** JILS-1313 SHEET : 7 OF 7

DIST	COUNTY	ROUTE	PROJECT LIMITS	DATE	OPERATOR	WEATHER
11	SD	75	11/ 17.4	6/19/02	Beck	clear

TEST	FROM P.M.	TO P.M.	DIRECTION	LANE	AIR TEMP	SURFACE TEMP
7	11.50	11.30	SB	2 of 2	85 F	114 F

SURFACE	CHIP SEAL	TEST INTERVALS 52FT UNLESS NOTED	(ft)	VERTICAL CONTROLS?	NO	IF YES,

Points	Data	Converted	Notes	allig	trans	long	d/out	pot	pump	corru	bleed	o/lay	rut	ravel
	in. x 10 $^{-3}$	inches	Severity	1/4"	1/4"	1/4"								
1	6.911	0.007	PHOTO		1									
2	9.977	0.011			1									
3	8.779	0.009		1	1									
4	7.492	0.008			1									
5	8.597	0.009	PHOTO		1	1								
6	10.763	0.012	PHOTO		1									
7	10.627	0.011	CORE		1									
8	13.954	0.015		1	1									
9	11.360	0.012			1									
10	10.612	0.011			1									
11	9.742	0.010			1									
12	9.940	0.011			1	1								
13	10.103	0.011			1									
14	13.398	0.014			1	1								
15	11.306	0.012			1									
16	10.114	0.011			1									
17	10.465	0.011			1									
18	12.099	0.013			1									
19	9.648	0.010			1									
20	9.335	0.010			1									
21	10.763	0.012		1	1	1								
			Totals	3	21	4	0	0	0	0	0	0	0	0

STD Dev	**0.002**
Mean	**0.011**
80TH	**0.013**

*NOTE: CONVERSION TO DEFLECTION IS BASED UPON APRIL **2002** CORRELATION CURVES

CORE DATA

AC CORE COND.	AC CORE THICKNESS	TOTAL CORE THICKNESS	BASE MATERIAL	BASE THICKNESS
INTACT	0.24 (ft)	0.74 (ft)	CTB	0.5 (ft)

GENERAL COMMENTS

SessionID	SectionName	Station	Lane	SlabPosition	DropID	Force	D1	D2	D3	D4	D5	D6	D7	D8	D9	Time	Surface	Air
1	Section 1	16758	Right-1	Right Side	67	8992.00	7.93	6.92	6.31	4.72	3.40	2.51	1.88	6.89	7.16	13:15	81.3	71.7
1	Section 1	17020	Right-1	Right Side	68	8822.00	7.00	6.12	5.64	4.47	3.35	2.53	1.91	6.30	5.96	13:16	81	71.8
1	Section 1	17274	Right-1	Right Side	69	8918.00	6.61	5.87	5.54	4.55	3.50	2.65	2.02	5.81	5.73	13:17	81.3	71.9
1	Section 1	17503	Right-1	Right Side	70	8949.00	9.85	8.74	7.89	5.75	3.91	2.69	1.93	7.91	8.24	13:18	80	72.4
1	Section 1	17760	Right-1	Right Side	71	8870.00	5.87	5.31	5.05	4.15	3.22	2.46	1.86	5.17	5.17	13:19	81.4	72.3
1	Section 1	18008	Right-1	Right Side	72	8929.00	7.23	6.56	6.17	4.95	3.74	2.77	2.05	5.79	6.36	13:20	81.1	72.4
1	Section 1	18256	Right-1	Right Side	73	8751.00	6.24	5.60	5.27	4.21	3.13	2.36	1.76	5.55	5.56	13:21	81.5	72.7
1	Section 1	18503	Right-1	Right Side	74	8889.00	6.86	6.15	5.80	4.65	3.50	2.63	1.91	6.03	5.99	13:22	81.7	72.7
1	Section 1	18786	Right-1	Right Side	75	8965.00	6.51	5.69	5.39	4.37	3.28	2.44	1.75	5.62	5.52	13:22	81	72
1	Section 1	19014	Right-1	Right Side	76	8926.00	7.07	6.13	5.63	4.34	3.17	2.37	1.75	5.99	6.07	13:23	81.4	72.8
1	Section 1	19253	Right-1	Right Side	77	8857.00	6.30	5.65	5.35	4.32	3.24	2.43	1.84	5.63	5.42	13:24	81.6	72.9
1	Section 1	19528	Right-1	Right Side	78	8878.00	6.94	6.14	5.80	4.63	3.46	2.57	1.89	6.23	5.92	13:25	82	73
1	Section 1	19755	Right-1	Right Side	79	8897.00	6.91	6.21	5.87	4.67	3.46	2.53	1.84	5.93	5.98	13:26	82.1	72.9
1	Section 1	20007	Right-1	Right Side	80	8889.00	7.22	6.41	5.72	4.39	3.13	2.28	1.65	5.98	5.80	13:27	82	73
1	Section 1	20252	Right-1	Right Side	81	8894.00	6.45	5.87	5.56	4.48	3.36	2.50	1.85	5.69	5.65	13:28	81.8	72.6
1	Section 1	20503	Right-1	Right Side	82	8913.00	6.20	5.65	5.38	4.44	3.37	2.51	1.85	5.56	5.41	13:29	82	72.9
1	Section 1	20769	Right-1	Right Side	83	8794.00	7.78	7.33	6.89	5.51	4.01	2.88	2.07	6.88	6.83	13:30	82.1	73
1	Section 1	21023	Right-1	Right Side	84	8762.00	8.10	6.51	5.70	4.32	3.17	2.46	1.78	6.07	6.39	13:31	83.1	73.4
1	Section 1	21282	Right-1	Right Side	85	8751.00	7.20	6.34	6.00	4.74	3.44	2.46	1.78	6.05	6.05	13:31	83.1	73.5
1	Section 1	21518	Right-1	Right Side	86	8878.00	6.65	5.84	5.56	4.56	3.39	2.47	1.73	5.70	5.67	13:32	83.5	73.4
1	Section 1	21775	Right-1	Right Side	87	8918.00	8.06	6.65	5.93	4.39	3.13	2.29	1.70	6.95	6.37	13:33	83.3	74.1
1	Section 1	22005	Right-1	Right Side	88	8870.00	8.57	7.52	6.81	5.31	4.00	2.97	2.22	6.98	6.86	13:34	83	73.9
1	Section 1	22252	Right-1	Right Side	89	8965.00	8.42	7.72	7.27	5.74	4.28	3.23	2.45	7.48	7.26	13:35	83.1	74.2
1	Section 1	22519	Right-1	Right Side	90	8902.00	6.65	6.11	5.85	4.97	3.96	3.10	2.38	6.03	5.99	13:36	83.4	75.1
1	Section 1	22761	Right-1	Right Side	91	8945.00	7.15	6.50	6.24	5.23	4.16	3.25	2.49	6.52	6.38	13:37	84	74.6
1	Section 1	23010	Right-1	Right Side	92	8687.00	7.65	6.96	6.69	5.47	4.07	3.06	2.32	6.41	6.64	13:38	82.9	75
1	Section 1	23259	Right-1	Right Side	93	8698.00	6.44	5.91	5.67	4.83	3.72	2.87	2.21	5.63	5.75	13:38	83	74.5
1	Section 1	23546	Right-1	Right Side	94	8679.00	7.45	6.81	6.43	5.39	4.26	3.34	2.54	6.56	6.44	13:39	83.3	76
1	Section 1	23758	Right-1	Right Side	95	8743.00	7.52	6.80	6.50	5.39	4.24	3.32	2.52	6.63	6.62	13:40	83.2	75.3
1	Section 1	24003	Right-1	Right Side	96	8913.00	8.35	7.63	7.28	5.97	4.61	3.50	2.59	7.26	7.47	13:41	84.6	76.2
1	Section 1	24260	Right-1	Right Side	97	8825.00	7.37	6.87	6.64	5.74	4.53	3.45	2.49	6.50	6.62	13:42	87	76.5
1	Section 1	24505	Right-1	Right Side	98	8838.00	6.87	6.14	5.88	4.95	3.91	3.03	2.25	6.03	5.93	13:43	87.3	76.5
1	Section 1	24761	Right-1	Right Side	99	8802.00	6.89	6.30	6.04	5.09	3.91	3.01	2.18	6.22	6.07	13:44	86.8	76.7
1	Section 1	25010	Right-1	Right Side	100	8770.00	8.79	7.63	7.15	6.03	4.56	3.42	2.44	7.59	7.16	13:45	84.9	77.7
1	Section 1	25269	Right-1	Right Side	101	8905.00	8.13	7.48	7.13	5.91	4.35	3.19	2.22	7.18	7.15	13:52	78.6	77.1
1	Section 1	25507	Right-1	Right Side	102	8902.00	8.12	7.29	6.95	5.83	4.61	3.58	2.72	7.31	7.03	13:53	84.9	77.1
1	Section 1	25769	Right-1	Right Side	103	8926.00	8.78	8.14	7.83	6.49	5.13	3.84	2.85	8.07	7.91	13:54	85.1	77.4
1	Section 1	26004	Right-1	Right Side	104	8905.00	8.81	8.08	7.67	6.30	4.72	3.41	2.50	7.79	7.66	13:55	85.6	76.8
1	Section 1	26253	Right-1	Right Side	105	8937.00	9.49	8.30	7.68	6.02	4.48	3.33	2.44	8.28	7.87	13:56	85	77.4
1	Section 1	26501	Right-1	Right Side	106	8862.00	9.52	8.63	8.08	6.39	4.67	3.40	2.49	8.26	8.15	13:58	84.9	76.4
1	Section 1	26755	Right-1	Right Side	107	8910.00	10.48	9.47	8.90	7.07	5.29	3.95	2.94	9.07	9.05	13:58	85.9	76.8
1	Section 1	26985	Right-1	Right Side	108	8889.00	12.41	11.26	9.89	7.35	5.17	3.74	2.72	10.85	9.54	13:59	84.8	76.5
1	Section 1	27206	Right-1	Right Side	109	8746.00	8.83	7.98	7.63	6.36	4.94	3.79	2.84	7.99	7.82	14:00	86.2	76.4
1	Section 1	27510	Right-1	Right Side	110	8857.00	11.81	11.02	10.56	8.85	6.85	5.23	3.87	10.30	10.67	14:01	85.9	76.6
1	Section 1	27767	Right-1	Right Side	111	8881.00	7.20	6.57	6.25	5.22	4.00	3.06	2.31	6.61	6.33	14:02	85.4	77
1	Section 1	28002	Right-1	Right Side	112	8825.00	8.03	7.19	6.83	5.64	4.30	3.23	2.39	7.07	7.09	14:03	85.2	76.1
1	Section 1	28256	Right-1	Right Side	113	8997.00	6.80	5.93	5.62	4.56	3.36	2.43	1.70	5.70	5.65	14:04	85.1	74.7
1	Section 1	28503	Right-1	Right Side	114	8960.00	7.22	6.34	6.06	4.83	3.52	2.52	1.77	5.99	6.00	14:05	85.3	74.1
1	Section 1	28756	Right-1	Right Side	115	8862.00	8.73	7.95	7.40	5.91	4.47	3.41	2.52	7.52	7.17	14:06	85.7	73.8
1	Section 1	29011	Right-1	Right Side	116	9032.00	6.96	6.26	5.81	4.40	2.99	1.95	1.20	6.07	5.85	14:07	85.3	74.3
1	Section 1	29256	Right-1	Right Side	117	8933.00	8.00	7.44	7.15	5.63	4.00	2.84	1.98	7.07	6.85	14:08	85.2	74
1	Section 1	29533	Right-1	Right Side	118	8830.00	10.94	10.08	9.59	7.84	5.95	4.40	3.15	10.43	9.74	14:09	85.3	72.8
1	Section 1	29758	Right-1	Right Side	119	9045.00	13.07	11.83	10.81	8.19	5.68	3.85	2.55	13.46	10.81	14:17	84.7	70.2
1	Section 1	30006	Right-1	Right Side	120	8913.00	11.00	9.96	9.51	7.78	5.83	4.28	3.15	11.06	9.57	14:18	84.5	70.4
1	Section 1	30267	Right-1	Right Side	121	8921.00	9.88	8.86	8.20	6.25	4.45	3.17	2.27	10.00	8.23	14:18	84.5	70.4
1	Section 1	30506	Right-1	Right Side	122	8818.00	5.15	4.28	3.96	3.27	2.68	2.16	1.70	4.12	4.03	14:19	84.8	70
1	Section 1	30766	Right-1	Right Side	123	8751.00	5.96	5.37	5.19	4.45	3.59	2.82	2.19	5.34	5.35	14:20	84.2	70
1	Section 1	31017	Right-1	Right Side	124	8778.00	4.80	4.39	4.22	3.61	2.89	2.25	1.70	4.29	4.12	14:22	85.1	70
1	Section 1	31254	Right-1	Right Side	125	8767.00	5.36	5.00	4.57	3.78	3.01	2.33	1.76	4.70	4.35	14:23	84.5	70.6
1	Section 1	31500	Right-1	Right Side	126	8865.00	6.46	5.96	5.78	5.14	4.26	3.50	2.70	6.00	5.80	14:24	85.7	70.2
1	Section 1	31667	Right-1	Right Side	127	8810.00	6.76	5.98	5.82	5.15	4.36	3.57	2.86	5.94	5.76	14:27	85.6	71.7

SessionID	SectionName	Station	Lane	SlabPosition	DropID	Force	D1	D2	D3	D4	D5	D6	D7	D8	D9	Time	Surface	Air
1	Section 1	0	Right-1	Right Side	1	9119.00	9.04	7.55	6.74	4.97	3.51	2.44	1.80	6.53	6.95	11:59	67.6	67.6
1	Section 1	251	Right-1	Right Side	2	9076.00	6.09	5.43	5.14	4.25	3.30	2.50	1.81	5.39	5.10	12:00	71.2	67.5
1	Section 1	503	Right-1	Right Side	3	9132.00	8.88	7.83	7.16	5.43	3.84	2.71	1.88	6.75	7.21	12:01	70.9	67.6
1	Section 1	753	Right-1	Right Side	4	9045.00	6.74	5.87	5.48	4.28	3.18	2.36	1.75	6.07	5.79	12:02	71.4	67.2
1	Section 1	1000	Right-1	Right Side	5	9108.00	7.18	6.03	5.48	4.22	3.03	2.21	1.61	6.14	5.78	12:03	72.2	67.8
1	Section 1	1263	Right-1	Right Side	6	9053.00	8.34	7.46	6.88	5.32	3.78	2.72	1.95	6.61	6.90	12:04	72.3	66.1
1	Section 1	1506	Right-1	Right Side	7	9088.00	6.82	5.89	5.41	4.22	3.06	2.25	1.64	5.55	6.30	12:05	72.3	67.5
1	Section 1	1771	Right-1	Right Side	8	9080.00	6.93	5.90	5.45	4.25	3.21	2.41	1.85	6.02	5.69	12:06	71.7	67.6
1	Section 1	2003	Right-1	Right Side	9	9048.00	6.55	5.94	5.55	4.54	3.47	2.66	2.03	5.63	5.65	12:07	72.2	66.2
1	Section 1	2260	Right-1	Right Side	10	9032.00	6.46	5.98	5.60	4.38	3.20	2.35	1.71	5.58	5.50	12:08	72.1	67.2
1	Section 1	2503	Right-1	Right Side	11	8981.00	6.48	5.79	5.30	4.25	3.17	2.35	1.77	5.84	5.65	12:09	72.6	67.3
1	Section 1	2764	Right-1	Right Side	12	8973.00	6.04	5.26	4.89	3.96	3.00	2.29	1.74	5.03	5.05	12:10	72.8	67.7
1	Section 1	3010	Right-1	Right Side	13	9013.00	6.04	5.48	5.06	3.97	2.98	2.24	1.69	5.17	4.99	12:11	72.2	67.6
1	Section 1	3255	Right-1	Right Side	14	8921.00	5.96	5.13	4.54	3.19	2.26	1.76	1.45	4.62	4.80	12:12	72.5	67.1
1	Section 1	3512	Right-1	Right Side	15	8894.00	7.24	6.53	5.87	4.29	2.90	2.13	1.56	5.91	5.97	12:13	73	67.3
1	Section 1	3767	Right-1	Right Side	16	8997.00	4.95	4.65	4.39	3.83	3.10	2.51	1.94	4.73	4.42	12:14	72.8	67.4
1	Section 1	4006	Right-1	Right Side	17	9032.00	5.98	5.36	5.13	4.33	3.43	2.61	1.96	5.70	5.38	12:15	73.9	67.3
1	Section 1	4261	Right-1	Right Side	18	8953.00	9.46	7.92	7.04	5.10	3.52	2.53	1.84	6.91	6.93	12:16	73.5	67.9
1	Section 1	4542	Right-1	Right Side	19	9103.00	7.74	6.84	6.20	4.59	3.20	2.31	1.68	6.24	6.31	12:17	73.3	67.4
1	Section 1	4769	Right-1	Right Side	20	8926.00	7.38	6.36	5.87	4.44	3.26	2.42	1.80	5.94	6.03	12:18	73.8	68
1	Section 1	5002	Right-1	Right Side	21	8918.00	6.93	6.08	5.70	4.46	3.32	2.49	1.87	5.81	6.10	12:19	73.9	67.9
1	Section 1	5258	Right-1	Right Side	22	8910.00	7.42	6.72	6.28	4.91	3.50	2.43	1.72	6.51	6.30	12:20	73.2	68
1	Section 1	5503	Right-1	Right Side	23	8905.00	8.59	7.86	7.44	5.56	4.08	2.98	2.25	7.49	7.39	12:21	74	67.2
1	Section 1	5756	Right-1	Right Side	24	8921.00	9.41	7.48	6.58	4.76	3.31	2.40	1.80	7.97	6.72	12:22	74.1	68.2
1	Section 1	6018	Right-1	Right Side	25	8862.00	7.51	6.57	6.08	4.64	3.35	2.48	1.82	5.89	6.10	12:23	74.4	68.2
1	Section 1	6264	Right-1	Right Side	26	8870.00	9.40	8.35	7.46	5.48	3.65	2.57	1.79	9.02	7.74	12:24	74.2	67.2
1	Section 1	6502	Right-1	Right Side	27	9029.00	13.61	10.90	8.80	4.63	2.74	2.01	1.57	8.84	8.81	12:25	75.3	68.6
1	Section 1	6780	Right-1	Right Side	28	9053.00	10.44	9.17	8.27	5.80	3.95	2.77	2.06	8.12	8.27	12:26	75.6	69.1
1	Section 1	7018	Right-1	Right Side	29	8992.00	12.96	10.94	9.00	5.56	3.93	2.90	2.09	9.15	9.21	12:27	75.5	67.9
1	Section 1	7262	Right-1	Right Side	30	9064.00	12.63	10.39	8.76	5.35	3.38	2.37	1.76	9.31	8.92	12:28	75.2	68.7
1	Section 1	7503	Right-1	Right Side	31	9008.00	11.80	9.87	8.33	5.09	3.16	2.19	1.67	8.65	8.52	12:29	74.8	68.5
1	Section 1	7774	Right-1	Right Side	32	9045.00	12.93	10.61	8.91	5.26	3.14	2.17	1.60	9.00	9.04	12:30	75.2	68.7
1	Section 1	8032	Right-1	Right Side	33	9016.00	10.42	8.83	7.69	5.33	3.70	2.65	1.87	7.70	7.84	12:31	75.7	68.6
1	Section 1	8254	Right-1	Right Side	34	8897.00	7.74	6.88	6.36	4.85	3.50	2.55	1.88	6.56	6.57	12:32	75.6	69.5
1	Section 1	8506	Right-1	Right Side	35	8949.00	6.75	6.03	5.63	4.45	3.28	2.49	1.85	5.71	5.76	12:33	76.3	69.7
1	Section 1	8763	Right-1	Right Side	36	8965.00	9.28	7.78	6.97	5.06	3.39	2.39	1.74	7.88	7.45	12:34	75.9	69.1
1	Section 1	9007	Right-1	Right Side	37	9000.00	9.27	8.80	7.81	5.42	3.78	2.64	1.91	8.22	7.35	12:35	76.4	69.1
1	Section 1	9267	Right-1	Right Side	38	8881.00	8.60	7.59	7.03	5.36	3.79	2.66	1.83	7.30	7.41	12:35	76.5	68.4
1	Section 1	9506	Right-1	Right Side	39	8957.00	7.34	6.42	5.76	4.48	3.35	2.54	1.89	6.37	5.83	12:36	76.6	69
1	Section 1	9760	Right-1	Right Side	40	9005.00	14.36	12.98	12.15	8.00	4.95	3.25	2.10	9.96	10.91	12:37	76.3	68.8
1	Section 1	10008	Right-1	Right Side	41	8933.00	8.70	7.89	7.52	6.18	4.70	3.56	2.52	7.11	7.83	12:38	76	69.6
1	Section 1	10259	Right-1	Right Side	42	8921.00	8.30	7.57	6.72	4.82	3.37	2.43	1.80	7.35	6.60	12:39	76.3	69.5
1	Section 1	10509	Right-1	Right Side	43	9048.00	9.07	8.37	7.78	6.08	4.24	2.94	2.06	7.63	7.72	12:40	75.7	70.2
1	Section 1	10768	Right-1	Right Side	44	9275.00	23.02	18.29	14.30	7.31	4.02	2.53	1.82	15.35	14.07	12:41	76.4	69.8
1	Section 1	11012	Right-1	Right Side	45	8921.00	7.31	6.40	5.94	4.53	3.21	2.33	1.66	6.35	6.15	12:42	76.4	70
1	Section 1	11255	Right-1	Right Side	46	8989.00	8.98	8.00	7.39	5.22	3.53	2.44	1.70	7.30	7.13	12:43	76.4	69.7
1	Section 1	11508	Right-1	Right Side	47	9016.00	7.27	6.61	6.18	4.81	3.54	2.54	1.83	6.26	6.26	12:44	77.2	70.1
1	Section 1	11802	Right-1	Right Side	48	8933.00	8.54	7.13	6.40	4.62	3.19	2.30	1.67	7.50	7.12	12:45	77.1	70.2
1	Section 1	12018	Right-1	Right Side	49	8984.00	6.85	6.07	5.61	4.35	3.19	2.36	1.79	5.98	5.82	12:46	77.1	70.3
1	Section 1	12255	Right-1	Right Side	50	8913.00	11.30	8.85	7.68	5.12	3.42	2.42	1.73	8.56	8.05	12:47	77.1	70.4
1	Section 1	12508	Right-1	Right Side	51	8926.00	7.86	7.07	6.49	4.90	3.38	2.36	1.71	6.45	6.63	12:48	78	69.9
1	Section 1	12751	Right-1	Right Side	52	9005.00	7.85	6.98	6.46	4.96	3.49	2.42	1.76	6.63	6.46	12:59	71.7	70.9
1	Section 1	13004	Right-1	Right Side	53	8897.00	5.76	3.86	3.15	1.85	1.15	0.85	0.75	3.96	4.67	13:00	80.1	70.9
1	Section 1	13257	Right-1	Right Side	54	8973.00	7.18	6.42	6.12	4.84	3.56	2.65	1.93	6.19	6.05	13:01	80.5	70
1	Section 1	13509	Right-1	Right Side	55	8913.00	6.49	5.79	5.43	4.30	3.18	2.36	1.76	5.57	5.55	13:02	79.2	70.7
1	Section 1	13750	Right-1	Right Side	56	8992.00	9.80	8.45	6.96	4.57	3.06	2.16	1.63	7.75	7.56	13:03	79.4	71.4
1	Section 1	14000	Right-1	Right Side	57	8897.00	13.56	11.02	9.33	6.29	4.32	3.20	2.42	10.06	9.68	13:04	80	70.7
1	Section 1	14257	Right-1	Right Side	58	8997.00	16.69	13.58	11.35	6.50	3.65	2.48	1.92	11.93	11.56	13:05	79.6	71.4
1	Section 1	14509	Right-1	Right Side	59	8886.00	15.00	12.23	10.05	5.95	3.70	2.59	1.97	11.08	10.40	13:07	78.9	71.1
1	Section 1	14756	Right-1	Right Side	60	8989.00	6.76	6.24	5.91	4.81	3.64	2.75	2.04	6.02	6.09	13:08	80.3	71.6
1	Section 1	15017	Right-1	Right Side	61	8862.00	7.48	6.62	6.16	4.85	3.47	2.53	1.85	6.40	6.37	13:09	80.2	71.6
1	Section 1	15311	Right-1	Right Side	62	8941.00	7.48	6.69	6.28	4.95	3.66	2.71	2.02	6.30	6.41	13:10	79	71.6
1	Section 1	15523	Right-1	Right Side	63	8949.00	8.36	7.47	6.94	5.31	3.80	2.72	1.94	6.89	7.01	13:10	79.9	72
1	Section 1	16042	Right-1	Right Side	64	8881.00	7.83	7.04	6.55	5.25	3.97	2.93	2.13	6.99	6.78	13:12	80.9	71.9
1	Section 1	16263	Right-1	Right Side	65	8894.00	7.84	6.94	6.44	4.93	3.53	2.54	1.79	6.52	6.76	13:13	82.4	71.5
1	Section 1	16504	Right-1	Right Side	66	8910.00	6.43	5.75	5.38	4.24	3.13	2.35	1.75	5.35	5.39	13:14	81.8	72.2

San Diego Pre-Construction Manual Distress Identification Summary Data

Data not collected due to construction sequencing – available data below extracted from Design Alterative data from Caltrans PMS
<Additional overview see Appendix C pre-construction pavement condition photographs>

Collection Date: 12/02/2001
Printed: 08/07/2002

Caltrans Maintenance Program

2001 Pavement Condition Survey Inventory

Caltrans Drive Order

District 11 County SD Route 075

County SD
Route 075
Begin PM 9.085

Begin PM	-	End PM	Length	LaneMi. (Est.)	Type	AADT (,000)	MSL
9.085	-	10.530	1.445	8.670	MLD	70	2
10.530	-	10.680	0.150	0.900	MLD	35	2
10.680	-	10.990	0.310	1.860	MLD	23	2
10.990	-	11.558	0.568	2.272	MLD	18	2
11.558	-	11.930	0.372	1.488	MLD	18	2
11.930	-	12.930	1.000	4.000	MLD	18	2

Lane	Surface Type	Alligator Cracking A %	Alligator Cracking B %	Alligator Cracking C (Y/N)?	Rutting, Bleeding	Slab Cracking 1st %	Slab Cracking 3rd %	Slab Cracking Corner %	Paulting	Patching Area %	Patching Poor Cond.?	Ride, IRI		Priority	Skid	Defect
9.085 - 10.530																
L1	F-DG	0	0									12	114			
L2	F-DG	0	0									12	113			
L3	F-DG	0	0										N/A			
R1	F-DG	0	0									15	125			
R2	F-DG	0	0									11	111			
R3	F-DG	0	0										N/A			
10.530 - 10.680																
L1	F-DG	0	0		Bleeding							8	97			
L2	F-DG	0	0									15	125			
L3	F-DG	0	0										N/A			
R1	F-DG	0	0		Bleeding							16	130			
R2	F-DG	0	0									20	144			
R3	F-DG	0	0										N/A			
10.680 - 10.990																
L1	F-DG	0	0									14	120			
L2	F-DG	0	0									15	125			
L3	F-DG	0	0										N/A			
R1	F-DG	0	0									14	121			
R2	F-DG	0	0									23	156			
10.990 - 11.558																
L1	F-CS	0	0							50		11	109			
L2	F-CS	0	0							100		10	107			
R1	F-CS	0	100	Yes								16	128	8		HIGH ABC
R2	F-CS	0	100	Yes								24	161	8		HIGH ABC
11.558 - 11.930																
L1	F-CS	0	0									9	104			
L2	F-CS	0	25									13	117	10		MOD ABC
11.930 - 12.930																
L1	F-CS	0	0									11	109			
L2	F-CS	0	0									12	114			

*Surface type of 'EB' is Enhanced Binder.

California D nent of Transportation, Maintenance Program, Pavement Management Informati anch, Phone (916) 654-2355.

Page 1

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To John Williamson From Kazim Mamdani
Co./Dept. Conat Co.
Phone # Phone #
Fax # 4/1/05 Fax #

Collection Date: 12/02/2001
Printed: 08/07/2002

Caltrans Maintenance Program
2001 Pavement Condition Survey Inventory
Caltrans Drive Order

County SD
Route 075
Begin PM 12.930

District 11 County SD Route 075

Begin PM - End PM	Length	LaneMi. (Est.)	Type	AADT (,000)	MSL

Lane	Surface Type	Alligator Cracking A %	Alligator Cracking B %	Alligator Cracking C (Y/N)?	Rutting, Bleeding	Slab Cracking 1st %	Slab Cracking 3rd %	Slab Cracking Corner %	Faulting	Patching Area %	Patching Poor Cond.?	Ride, IRI	Priority	Skid	Defect
12.930 - 13.230			**0.300**		**1.200**	**MLD**	**18**	**2**							
L1	F-CS	0	0									9 104			
L2	F-CS	0	0									5 82			
13.230 - 13.930			**0.700**		**2.800**	**MLD**	**18**	**2**							
L1	F-CS	0	0									5 88			
L2	F-CS	0	0									5 84			
13.930 - 14.730			**0.800**		**3.200**	**MLD**	**23**	**2**							
L1	F-CS	0	0									8 99			
L2	F-CS	0	0									9 103			
14.730 - 14.930			**0.200**		**0.800**	**MLD**	**23**	**2**							
L1	F-DG	0	0									8 97			
L2	F-DG	0	0	Yes						100	Yes	6 92	10		PATCHING
14.930 - 15.530			**0.600**		**2.400**	**MLD**	**23**	**2**							
L1	F-DG	0	0									8 100			
L2	F-DG	0	0	Yes						100	Yes	13 119	10		PATCHING
15.530 - 15.930			**0.400**		**1.600**	**MLD**	**23**	**2**							
L1	F-DG	0	0							100		10 105			
L2	F-DG	0	0							100		19 142			
15.930 - 16.330			**0.400**		**1.600**	**MLD**	**23**	**2**							
L1	F-DG	0	0							100		7 94			
L2	F-DG	0	0							100		8 99			
16.330 - 16.930			**0.600**		**2.400**	**MLD**	**23**	**2**							
L1	F-DG	0	0									6 92			
L2	F-DG	0	50	Yes								5 84	8		HIGH ABC
16.930 - 17.330			**0.400**		**1.600**	**MLD**	**23**	**2**							
L1	F-DG	0	0									7 93			
L2	F-DG	0	50	Yes								5 88	8		HIGH ABC
17.330 - 17.348			**0.018**		**0.072**	**MLD**	**23**	**2**							
L1	F-DG	0	0									8 99			
L2	F-DG	0	0									7 95			

*Surface type of 'EB' is Enhanced Binder.

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Printed: 08/07/2002

2001 Pavement Condition Survey Inventory
Caltrans Drive Order

District 11 County SD Route 075

County SD
Route 075
Begin PM 17.348

Begin PM - End PM	Length	LaneMi. (Est.)	Type	AADT (,000)	MSL
17.348 - 18.230	0.882	3.528	MLD	25	2
18.230 - 18.830	0.600	2.400	MLD	25	2
18.830 - 19.696	0.866	3.464	MLD	29	2

Lane	Surface Type	Alligator Cracking A %	Alligator Cracking B %	Alligator Cracking C (Y/N)?	Rutting, Bleeding	Slab Cracking 1st %	Slab Cracking 3rd %	Slab Cracking Corner %	Faulting	Patching Area %	Patching Poor Cond.?	Ride, IRI	Priority	Skid	Defect
L1	F-DG	0	0									12 113			
L2	F-DG	0	0									10 108			
R1	F-CS	0	0									12 116			
R2	F-CS	0	0									20 145			
L1	F-DG	0	0									21 150			
L2	F-DG	0	0									24 161			
R1	F-CS	0	0									20 145			
R2	F-CS	0	0									25 164			
L1	F-DG	0	0									22 155			
L2	F-DG	0	0									28 178			
R1	F-CS	0	0									22 152			
R2	F-CS	0	19		Rutting							39 222	10		MOD ABC

*Surface type of 'EB' is Enhanced Binder.
California Department of Transportation, Maintenance Program, Pavement Management Information Branch, Phone (916) 654-2355.

Page 3

San Diego Hwy 75 11-230103
Pre-Construction Pavement Photographs

ALLIGATOR CRACKING ATPM 17.4.THIS IS BEFORE TEST SECITON 1 AND WAS NOT TESTED

TEST #1 SB LANE 2 AT PM 17.25TRANSITION FROM CHIP SEAL TO THIN BLANKET

TEST #1 CORE

TEST #1 SB LANE 2 AT PM 17.2 TYPICAL VIEW OF ROADWAY

TEST #2 SB LANE 2 AT PM 16.3

TESTING ON THIN BLANKET OVER CHIP SEAL

TEST #2 SB LANE 2 AT PM 16.2

San Diego Hwy 75 11-230103
Pre-Construction Pavement Photographs

TEST #2 SB LANE 2 AT PM 16.19ALLIGATOR CRACKING

TEST #2 SB LANE 2 AT PM 16.13

EXPOSED TRAFFIC LOOP

TEST #2 CORE

PRIOR TO TEST #3 SB LANE 2 AT PM 15.8

BEGINNING OF SPLIT SURFACES/BASES

TEST #3 SB LANE 2 AT PM 15.62

TEST #3 CORE IN RIGHT WHEEL TRACK

San Diego Hwy 75 11-230103
Pre-Construction Pavement Photographs

TEST #3 CORE IN LEFT WHEEL TRACK

TEST #3 SB LANE 2 AT PM 15.55
SPLIT CONTINUES

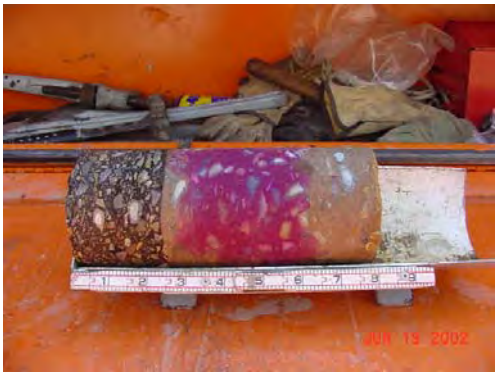
PRIOR TO TEST #4
SB LANE 2 AT PM 15.1

TEST #4 SB LANE 2 AT PM 14.7

TEST #4 CORE

TEST #5 SB LANE 2 AT PM 13.6

San Diego Hwy 75 11-230103
Pre-Construction Pavement Photographs



TEST #5 CORE

TEST #6 SB LANE 2 AT PM 12.6

TEST #5 CORE

TEST #6 SB LANE 2 AT PM 12.6

TEST #6 CORE

TEST #7 SB LANE 2 AT PM 11.5

Materials & Testing Data San Diego Hwy 75 (11-230103)

San Diego Quality Control Tests

Paving dates	Sieve sizes										AC content	Density	Avg. Relative Compaction, ≥94%
	19 mm	12.5 mm	9.5 mm	4.75 mm	2.36 mm	1.18 mm	600 µm	300 µm	150 µm	75 µm			
	Specified, % Passing												
	95-100		59-73	26-40	16-26		7-17			2.1-8.1			
4-21-03	96	80	67	34	21		11			2.5	7.1	2.36	94.5
	98	82	68	34	22		12			2.9	7.2	2.26	94.7
4-22-03	97	81	70	35	21		9			2.2	7.5	2.28	93.7
	97	81	69	33	22		9			2.6	7.2	2.28	93.4
4-23-03	97	80	69	32	23		13			2.6	7.5	2.24	95.9
	97	81	71	32	23		13			2.6	6.9	2.24	95.2
4-24-03	97	80	70	32	20		8			1.9	7.1	2.27	96.3
	97	80	70	33	20		9			2.2	7.1	2.27	96.3
4-28-03	98	79	69	33	21		9			2.9	7.6	2.27	95.2
4-30-03	97	80	69	34	22		8			2.2	7.2	2.26	95.2
	97	80	68	34	21		9			2.2	7.3	2.26	94.5
5-01-03	98	80	69	37	22		9			2.0	7.6	2.22	96.9
	97	79	69	36	21		9			2.2	7.3	2.22	97.4
5-05-03	97	81	69	33	22		10			2.0	7.9	2.27	94.1
	97	82	70	35	21		10			2.2	6.9	2.27	94.5
5.06-03	97	83	69	37	21		9			2.2	6.9	2.28	94.1
	97	82	69	33	22		10			2.4	7.3	2.28	94.2
5-07-03	97	81	69	32	21		10			2.4	7.3	2.26	95.7
	97	82	71	32	20		9			2.2	7.5	2.26	94.6
	97	82	69	34	21		10			2.4	7.2	2.26	94.3
5-08-03	97	83	69	34	21		9			2.2	7.1	2.27	94.5
5-12-03	97	83	69	33	20		9			3.0	6.9	2.24	94.1
	98	83	69	34	20		10			3.0	7.6	2.24	95.5
5-13-03	98	82	70	34	20		10			2.6	7.2	2.27	95.0
5-14-03	97	82	70	35	21		10			2.4	7.2	2.26	94.7
5-15-05	97	83	70	35	20		10			2.4	7.2	2.26	95.5

KLEINFELDER, INC.

GEOTECHNICAL, ENVIRONMENTAL & MATERIALS TESTING ENGINEERING

Hot Mix Design by Hveem Method (CT-367)

KA Project Number: 28165 Date : 3/27/03
Project Name: 11-230104 Rte 75 Silver Strand
Mixture Type: 19mm ARHM-G (Asphalt Rubber Hot Mix - Gap Graded) Reviewed by: J. Stiady

Materials Characteristics

Aggregate source: Hanson Aggregate
Nominal Maximum Aggregate Size : 19 mm (3/4")
Percentage of Coarse Aggregate : 67%
Percentage of Fine Aggregate : 33%
Average Specific Gravity of Aggregate: 2.56
Asphalt type: Asphalt Rubber (80% AR-4000, 20% CRM)
Asphalt source: FnF Inc.
Specific Gravity of Asphalt: 1.04

Aggregate Quality Test

Percentage of Crushed Particles (CT-205)

	Results	Spec. (Min)
Coarse Agg.	98.8	90
Fine Agg.	99.5	90

Los Angeles Rattler (CT-211)

	Loss (%)	Spec. (Max)
At 100 Rev.	4.1	10
At 500 Rev.	18.9	40

Sand Equivalent (CT-217)

SE	Spec. (Min)
54	50

Aggregate Gradation

Sieve size (mm)	Sieve size (US Standard)	Percent Passing (%)	Specification Limit	Contract Compliance
25.4	1"	100		100
19	3/4"	99		90-100
12.5	1/2"	86	83-87	79-93
9.5	3/8"	66	65-70	59-73
4.75	#4	33	33-37	26-40
2.36	#8	21	18-22	16-26
1.18	#16	16		
0.6	#30	12	8-12	7-17
0.3	#50	8		
0.15	#100	5		
0.075	#200	3.3		0-8

Specimen Characteristics

Mixing Temperature : 300-325°F (149-163°C)
Compaction Temperature : 300-320°F (149-160°C)

Specimen	A	B	C	D	**Design AC**
Asphalt by Dry Weight of Aggregate (%):	6.5	7.0	7.5	8.0	**7.4**
Bulk Specific Gravity (CT308 - A)	2.22	2.22	2.23	2.24	**2.23**
Theoretical Max. Spec. Grav. (CT309)	2.384	2.359	2.341	2.304	**2.344**
Air Voids (%)	6.8	5.7	4.9	2.7	**5.1**
Stability Value	29	31	31	29	**31**
Voids in Mineral Aggregate, VMA (%)	18.6	18.9	19.2	19.0	**19.2**

Based on test results performed in the lab., the recommended percent asphalt by dry weight of aggregate : **7.4%**

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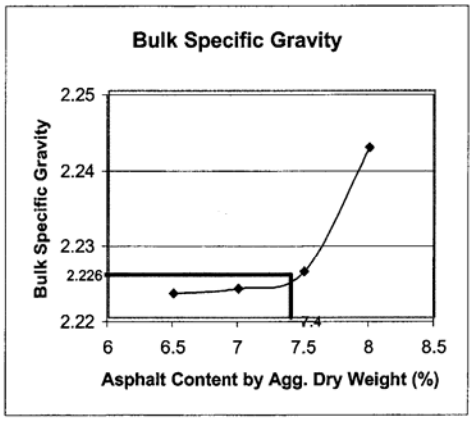
KLEINFELDER, INC.

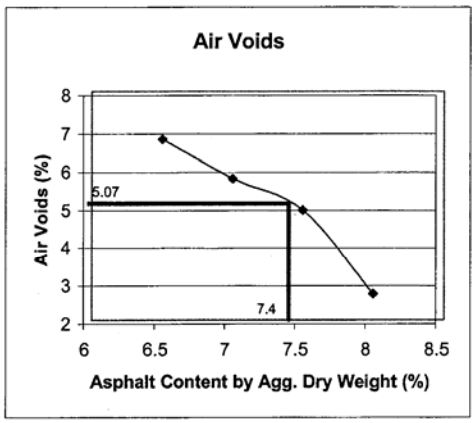
GEOTECHNICAL, ENVIRONMENTAL & MATERIALS TESTING ENGINEERING

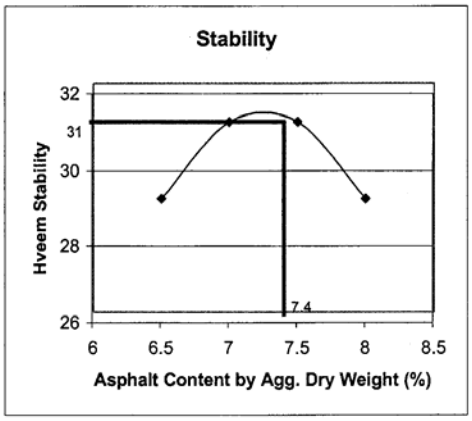
Hot Mix Design by Hveem Method

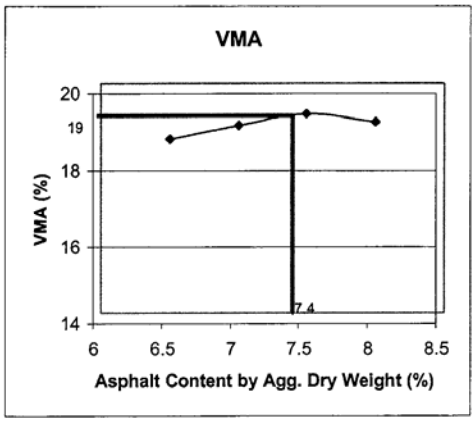
Project Number: 28165
Project Name: 11-230104 Rte 75 Silver Strand
Mixture Type: 19mm ARHM-G

Date : 3/27/03
Reviewed by: J. Stiady









Lab Coordinator: D. Cliff

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KLEINFELDER, INC.

GEOTECHNICAL, ENVIRONMENTAL & MATERIALS TESTING ENGINEERING

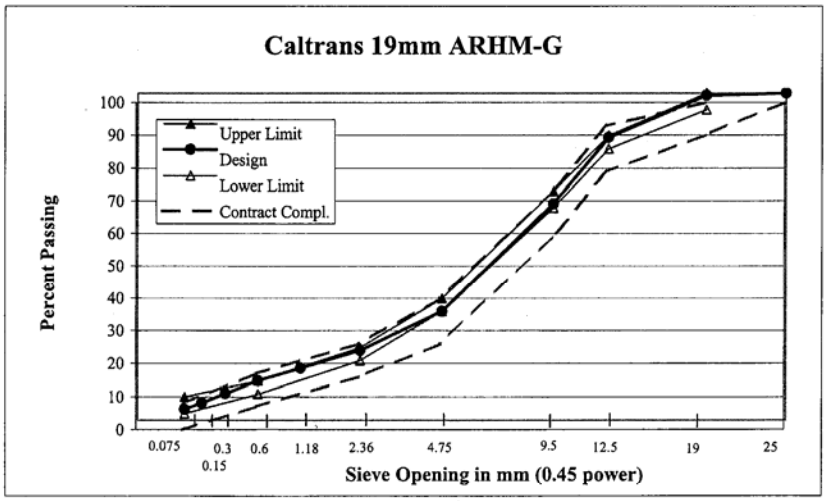
Aggregate Gradation

Project Number:	28165	Date :	3/27/03
Project Name:	11-230104 Rte 75 Silver Strand	Technician:	M.B
Mixture Type:	19mm ARHM-G	Reviewed by:	J. Stiady

Aggregate Gradation

Aggregate source: Hanson Aggregates

Bin Number		#1	#2	#3	#4	M. Filler	Combined		
Bin Percentage		21	44	16	18	1	Percent		Contract
Sieve size	Sieve size	Passing	Passing	Passing	Passing	Passing	Passing	Specification	Compliance
(mm)	(US Standard)	(%)	(%)	(%)	(%)	(%)	(%)		
25.4	1"	100	100	100	100	100	100		100
19	3/4"	100	100	100	96	100	99		90-100
12.5	1/2"	100	100	86	37	100	86	83-87	79-93
9.5	3/8"	100	92	20	3	100	66	65-70	59-73
4.75	#4	100	24	2	1	100	33	33-37	26-40
2.36	#8	89	3	0	0	100	21	18-22	16-26
1.18	#16	70	0	0	0	100	16		
0.6	#30	52	0	0	0	100	12	8-12	7-17
0.3	#50	34	0	0	0	100	8		
0.15	#100	20	0	0	0	100	5		
0.075	#200	11.0	0.0	0.0	0.0	100.0	3.3		0-8



Lab Coordinator: D. Cliff

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KLEINFELDER, INC.

GEOTECHNICAL, ENVIRONMENTAL & MATERIALS TESTING ENGINEERING

Aggregate Specific Quality

Project Number: 28165 Date : 3/27/03
Project Name: 11-230104 Rte 75 Silver Strand
Mixture Type: 19mm ARHM-G Reviewed by: J. Stiady

Coarse Aggregate Specific Gravity (CT 206)

Oven-dry Weight [A], (gr)	4380.6
Weight in SSD condition [B], (gr)	4420.5
Weight in water [C], (gr)	2728.6
Bulk Specific Gravity (oven-dry), [A/(B-C)]	**2.59**
Bulk Specific Gravity (SSD), [B/(B-C)]	2.61
Bulk Specific Gravity (apparent), [A/(A-C)]	2.65
% Absorption [(B-A)/A * 100]	0.9

Fine Aggregate Apparent Specific Gravity (CT 208)

A) Initial temperature (°F)	64.1
B) Initial level of kerosene (ml)	0.1
C) Initial weight of kerosene + flask (gr)	329.4
D) Weight of sample+kerosene+flask (gr)	384.7
E) Final temperature (°F)	68.1
F) Final level of kerosene (ml)	21.2
G) Sample weight [D-C], (gr)	55.3
H) Volume of displaced kerosene [F-B], (ml)	21.1
I) Change in temperature (°F)	4.0
J) Corrected displacement (ml)	21.5
K) Apparent Specific Gravity [G/J]	2.57
Apparent Specific Gravity	**2.57**

Fine Aggregate Specific Gravity (CT 207)

Oven-dry Weight [A], (gr)	491.7
Weight of flask filled with water [B], (gr)	702.8
Weight of SSD sample [S], (gr)	501.2
Weight of flask, sample, and water [C], (gr)	1008.3
Bulk Specific Gravity (oven-dry), [A/(B+S-C)]	**2.51**
Bulk Specific Gravity (SSD), [S/(B+S-C)]	2.56
Bulk Specific Gravity (apparent), [A/(B+A-C)]	2.64
% Absorption [(S-A)/A * 100]	1.9

Lab Coordinator: D. Cliff

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KLEINFELDER, INC.
GEOTECHNICAL, ENVIRONMENTAL & MATERIALS TESTING ENGINEERING

SAND EQUIVALENT TEST
CT 217

Project Number: 28165 Project Name: 11-230104 Rte 75 Silver Strand
Test Date: 3/27/03

Sample Number: 1 Sample Description: -#4 of Blended Aggregate

Trial Number		1	2	3
Soaking Time (10 ± 1 Min.)	Start	5:27	5:30	5:33
	Stop	5:37	5:40	5:43
Sedimentation Time (20 Min. ± 15 Sec.)	Start	5:40	5:43	5:46
	Stop	6:00	6:03	6:06
Clay Reading		6.9	6.8	6.9
Sand Reading		3.8	3.6	3.8
SE = Sand Reading X 100 / Clay Reading		55	53	55
Average Sand Equivalent			54	

Remarks: Operating Range 50 min.
Contract Compliance 47 min.

Check test: O D419 O T176 ● CAL217 Lab#: N/A

Tech: M.B Lab Coordinator: D.Cliff

Kleinfelder, Inc. 5015 Shoreham Place, San Diego, CA 92122. Ph: 858-320-2000. Fax: 858-320-2001.

KLEINFELDER, INC.

GEOTECHNICAL, ENVIRONMENTAL & MATERIALS TESTING ENGINEERING

Aggregate Quality Test

Project Number: 28165 Date : 3/27/03
Project Name: 11-230104 Rte 75 Silver Strand
Mixture Type: 19mm ARHM-G Reviewed by: J. Stiady

Percentage of Crushed Particles (CT-205)

Coarse Aggregate Fraction

Passing	Retained	Percent Or. Sample (%) (A)	Test Sample Wt. (g)	Wt. of Crushed (g)	Percent Crushed (%) (B)	(A)x(B)
19 mm	12.5 mm	13	1008.6	1004	99.5	1293.5
12.5 mm	9.5 mm	20	510.3	497.2	97.4	1948.0
9.5 mm	6.3 mm	21	255.3	253.7	99.4	2087.4
6.3 mm	4.75 mm	12	100.3	99.6	99.3	1191.6
		66				6520.5

Percentage of Crushed Particles for Coarse Agg. = 98.8
Specification Limit (minimum value) = 90

Fine Aggregate Fraction

Passing	Retained	Percent Or. Sample (%) (A)	Test Sample Wt. (g)	Wt. of Crushed (g)	Percent Crushed (%) (B)	(A)x(B)
4.75 mm	2.36 mm	12	102.1	101.6	99.5	1194.0
		12				1194

Percentage of Crushed Particles for Fine Agg. = 99.5
Specification Limit (minimum value) = 90

Los Angeles Rattler (CT-211)

Method : C
Number of balls: 8

Passing	Retained	Before	At 100 Revolution		At 500 Revolution	
		Sample Weight (g)	Sample Wt. (g)	Loss (%)	Sample Wt. (g)	Loss (%)
9.5 mm	6.3 mm	2500.8				
6.3 mm	4.75 mm	2499.3				
		5000.1	4795.1	4.1	4056.1	18.9

	Loss (%)	Spec .Limit max. (%)
At 100 Revolution	4.1	10
At 500 Revolution	18.9	40

Lab Coordinator: D. Cliff

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KLEINFELDER, INC.
GEOTECHNICAL, ENVIRONMENTAL & MATERIALS TESTING ENGINEERING

BULK SPECIFIC GRAVITY AND DENSITY
CT -308 Method A

Project Number:	28165	Type of Oil:	Asphalt Rubber
Project Name:	11-230104 Rte 75 Silver Strand	Type of Mix:	19mm ARHM-G
Contract No.:	11-230104	Comp. Temp.:	300-320°F (149-160°C)
Sample No.:		Sample Date:	
Location:		Test Date :	3/27/03
		Tested By:	MB

Sample Number	1	2	3	4
Asphalt Content by aggregate dry weight (%)	**6.5**	**7.0**	**7.5**	**8.0**
Length (inches)	2.70	2.75	2.74	2.74
Diameter (inches)	4.0	4.0	4.0	4.0
Weight of Briquette (Dry, Uncoated),gms.	1206.7	1210.0	1223.2	1229.7
Weight of Briquette (Wax Coated),gms.	1226.7	1232.4	1245.7	1252.5
Weight of Briquette (Coated, Immersed),gms.	661.7	663.4	671.2	678.8
Specific Gravity of Paraffin	0.90	0.90	0.90	0.90
Bulk Specific Gravity	2.22	2.22	2.23	2.24
Density (lbs./cuft.)	138.7	138.8	138.9	139.9

Lab Coordinator: D. Cliff

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KLEINFELDER, INC.
GEOTECHNICAL, ENVIRONMENTAL & MATERIALS TESTING ENGINEERING

THEORETICAL MAXIMUM SPECIFIC GRAVITY
CT -309

Project Number:	28165	Type of Oil:	Asphalt Rubber
Project Name:	11-230104 Rte 75 Silver Strand	Type of Mix:	19mm ARHM-G
Contract No.:	11-230104	Comp. Temp.:	300-320°F (149-160°C)
Sample No.:		Sample Date:	
Location:		Test Date :	3/27/03
		Tested By:	MB

Sample Number	1	2	3	4
Asphalt Content by aggregate dry weight (%)	**6.5**	**7.0**	**7.5**	**8.0**
Mass of Empty Container	2098.2	2098.2	2098.2	2098.2
Mass of Container filled w/ water @ 77°F	7361.6	7361.6	7361.6	7361.6
Mass of oven dry sample in air	2115.2	2125.5	2127.0	2144.6
Mass of container filled w/ sample and water @ 77oF	8589.6	8586.0	8579.9	8575.5
Theoretical Maximum Specific Gravity	2.384	2.359	2.341	2.304
Density (lbs./cuft.)	148.4	146.8	145.7	143.4

Air Voids

Bulk Specific Gravity	2.22	2.22	2.23	2.24
Theoretical Maximum Specific Gravity	2.384	2.359	2.341	2.304
Air Voids (%)	6.8	5.7	4.9	2.7

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KLEINFELDER, INC.
GEOTECHNICAL, ENVIRONMENTAL & MATERIALS TESTING ENGINEERING

STABILOMETER VALUE

CT -366

Project Number:	28165	**Mix Type:**	19mm ARHM-G
Project Name:	11-230104 Rte 75 Silver Strand	**Mixing Temp.:**	320 °F
Date Sampled:	3/22/03	**Comp. Temp.:**	290 °F
Date Tested:	3/27/03	**Tested By:**	MB

Sample No.				1	2	3	4
Asphalt Content by aggregate dry weight (%)				**6.5**	**7.0**	**7.5**	**8.0**
A. Sample Weight (gr)				1206.7	1210.0	1223.2	1229.7
B. Sample Height (in)				2.70	2.75	2.74	2.74
C. Curing Time Before Leveling Load			Start	11:00	11:15	11:25	11:35
			Finish	1:00	1:15	1:25	1:35
			Time (Hours)	2	2	2	2
	AASHTO	ASTM	CAL 366				
D. Horizontal Pressure at Vertical Load	500 lbs.	n/a	n/a	10.0	10.0	10.0	11.0
E. Horizontal Pressure at Vertical Load	1000 lbs.	n/a	n/a	15.0	15.0	14.0	16.0
F. Horizontal Pressure at Vertical Load	2000 lbs.	n/a	2000 lbs.	24.0	20.0	22.0	25.0
G. Horizontal Pressure at Vertical Load	3000 lbs.	3000 lbs.	3000 lbs.	35.0	29.0	29.0	34.0
H. Horizontal Pressure at Vertical Load	4000 lbs.	n/a	4000 lbs.	46.0	39.0	39.0	44.0
I. Horizontal Pressure at Vertical Load	5000 lbs.	5000 lbs.	5000 lbs.	**58.0**	**48.0**	**50.0**	**56.0**
J. Horizontal Pressure at Vertical Load	6000 lbs.	6000 lbs.	6000 lbs.	72.0	60.0	65.0	70.0
K. Turns Displacement				**3.81**	**4.10**	**4.05**	**3.86**
L. Stability Value				26	28	28	26
M. Stability Value Corrected for Height				**29**	**31**	**31**	**29**

Lab Coordinator: D. Cliff

Kleinfelder, Inc. 5015 Shoreham Place, San Diego, CA 92122. Ph: 858-320-2000. Fax: 858-320-2001.

OKRJO
4-7-03

Hanson

Per Kleinfelder's OBC

Date: April 1, 2003
To: Joe Odle, Caltrans
From: Eddie Chapman / Robert Piceno
QC/QA Technical Services
Contract: 11-230104

Re: Caltrans Section 39, Type G Hot Mix Asphalt Concrete

The following is a submittal for 19 mm (3/4") Type G Asphalt Concrete produced by the Hanson SJH Construction Miramar Plant from aggregates manufactured by Hanson Aggregates at the Carroll Canyon Plant & sand from Hanson Aggregates Pala Plant.

19mm Rubberized Asphalt Concrete, Type G**

Bins*	#1 Bin	#2 Bin	#3 Bin	#4 Bin	Mineral Filler	Spec Limits	Combined Gradation
Bin % Screens	21	44	16	18	1		
25mm	100	100	100	100	100	100	100
19mm	100	100	100	96	100	95-100	99
12.5mm	100	100	86	37	100	78-88 (x = 83)	86
9.5mm	100	92	20	3	100	60-70 (x = 65)	66
4.75mm	100	24	2	1	100	30-40 (x = 35)	33
2.36mm	89	3	0	0	100	18-26 (x = 22)	21
1.18mm	70	0	0	0	100	--	--
600um	52	0	0	0	100	8-16 (x = 12)	12
300um	34	0	0	0	100	--	--
150um	20	0	0	0	100	--	--
75um	11	0	0	0	100	2 - 7	3.3
SE*	61	--	--	--			
CV*	--	81	88	91			

Proposed oil content to be 7.4% DWA

MAR-26-03 WED 10:35 AM CCAC DII LAB FAX NO. 8585482565 PAGE 01 P. 02

OK RJO 3-26-03

California Commercial Asphalt Corporation

TO: HANSON SJH CONST. ATTN: LARRY MILLER

FROM: TERRY NICOMETO

DATE: 3/25/03

CONTRACT: HWY 75 O'LAY, 11-230104

CCAC S.L#: 03-117 CUSTOMER NO.: 455712

SPECIFICATIONS: CALTRANS SECTION 39, TYPE A

THE FOLLOWING IS OUR SUBMITTAL FOR: 19MM COURSE
PRODUCED BY OUR OTAY PLANT FROM AGGREGATE MANUFACTURED BY:

	HANSON 3/4"	HANSON 1/2"	HANSON 3/8"	HANSON DUST	LAKESIDE SAND	X VALUE	COMB. GRAD.	SPEC. LIMITS
Usage	15%	32%	8%	23%	22%		100%	
25MM	100	100	100	100	100		100	100
19MM	88	100	100	100	100		98	90-100
12.5MM	25	85	100	100	100		84	
9.5MM	9	55	100	100	100		72	60-75
4.75MM	5	6	39	99	97	50	50	45-55
2.36MM	1	2	10	68	87	36	36	31-41
600UM	0	0	1	28	52	18	18	13-23
75UM	0	0	0	10	8		4.1	3-7
C.V.	84	81	79					
S.E.				57	62			

Proposed Oil Content 5.2% DWA AR-4000

Post Office Box 26880, San Diego, California 92196-0880 (858) 586-0611 Fax (858) 549-2565

DAILY SUMMARY OF QUALITY CONTROL AND PROCESS CONTROL TESTING (Form AF-09)

This form shall be submitted with all daily testing reports. Use additional sheets as necessary.

To: John Williamson ,Resident Engineer
Contract Number: 11-230104 Sheet # : 1 of 15
Co.-Rte.-kp: 11 - SD - 75 - 17.7/28.0 AC Type: Rubberized AC
Mix Design #: 178 KA Job No: 28165
Sample Milestone: 192 737 Lot Number: 1
Production Date: 4/21/03 Production Day: 1
Note: Attached copies of all individual test worksheets. Indicate by circling, all test results that are not within the Target Values. Insure sub-lot numbers match test worksheets.

	Sublot numbers	1	2				
Test Title	Test Number	Test Result	Test Result	Test Result	Test Result	Test Result	Target Value & Spec. Limits
Asphalt Content:	CT 379 CT 382	7.1	7.2				6.9 - 7.9
Mix. Moisture Content:	CT 370	0.07	0.06				≤ 1%
Gradation:	CT 202 19 mm	96	98				90 - 100
(per gradation)	12.5 mm	80	82				79 - 93
	9.5 mm	67	68				59 - 73
	4.75 mm	34	34				26 - 40
	2.36 mm	21	22				16 - 26
	0.6 mm	11	12				7 - 17
(report to the tenth)	0.075 mm	2.4	2.9				0 - 8
Relative Compaction:	CT 375	94.5	94.7				≥ 94%
Test Max. Density	CT 375	2.26					NA
Theoretical Max. Density	CT 309	2.378					NA
Air Voids:	CT 367	4.9					
Sand Equivalent:	CT 217	66					≥ 50
S Value:	CT 366	34					≥ 25
Cleanness Value:	CT 227	86					

"It is hereby certified that the information contained in this record is accurate, and that all tests and calculations documented herein comply with the requirements of the contract and the standards set forth in the testing procedures. Any exceptions to this certification are documented as a part of this record."

QC Manager: {sign} James Stiady Date: 4/22/03
{print} James Stiady

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DAILY SUMMARY OF QUALITY CONTROL AND PROCESS CONTROL TESTING (Form AF-09)

This form shall be submitted with all daily testing reports. Use additional sheets as necessary.

To: John Williamson ,Resident Engineer
Contract Number: 11-230104 Sheet # : 1 of 15
Co.-Rte.-kp: 11 - SD - 75 - 17.7/28.0 AC Type: Rubberized AC
Mix Design #: 178 KA Job No: 28165
Sample Milestone: 1167 1783 Lot Number: 1
Production Date: 4/22/03 Production Day: 2
Note: Attached copies of all individual test worksheets. Indicate by circling, all test results that are not within the Target Values. Insure sub-lot numbers match test worksheets.

	Sublot numbers	3	4				
Test Title	Test Number	Test Result	Test Result	Test Result	Test Result	Test Result	Target Value & Spec. Limits
Asphalt Content:	CT 379 CT 382	7.5	7.2				6.9 - 7.9
Mix. Moisture Content:	CT 370	0.08	0.07				≤ 1%
Gradation:	CT 202 19 mm	97	97				90 - 100
(per gradation)	12.5 mm	81	81				79 - 93
	9.5 mm	70	69				59 - 73
	4.75 mm	35	33				26 - 40
	2.36 mm	21	22				16 - 26
	0.6 mm	9	9				7 - 17
(report to the tenth)	0.075 mm	2.2	2.6				0 - 8
Relative Compaction:	CT 375	93.7	93.4				≥ 94%
Test Max. Density	CT 375	2.28					NA
Theoretical Max. Density	CT 309	2.345					NA
Air Voids:	CT 367	3.0					
Sand Equivalent:	CT 217	60					≥ 50
S Value:	CT 366	33					≥ 25
Cleanness Value:	CT 227	84					

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QC Manager: {sign} James Stiady Date: 4/23/03
{print} James Stiady

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DAILY SUMMARY OF QUALITY CONTROL AND PROCESS CONTROL TESTING (Form AF-09)

This form shall be submitted with all daily testing reports. Use additional sheets as necessary.

To: John Williamson ,Resident Engineer
Sheet # : 1 of 15
Contract Number: 11-230104
AC Type: Rubberized AC
Co.-Rte.-kp: 11 - SD - 75 - 17.7/28.0
KA Job No: 28165
Mix Design #: 178
Sample Milestone: 2061 2787
Lot Number: 1
Production Date: 4/23/03
Production Day: 3
Note: Attached copies of all individual test worksheets. Indicate by circling, all test results that are not within the Target Values. Insure sub-lot numbers match test worksheets.

Test Title	Sublot numbers / Test Number	5 Test Result	6 Test Result	Test Result	Test Result	Test Result	Target Value & Spec. Limits
Asphalt Content:	CT 379 CT 382	7.5	6.9				6.9 - 7.9
Mix. Moisture Content:	CT 370	0.07	0.06				≤ 1%
Gradation:	CT 202 19 mm	97	97				90 - 100
(per gradation)	12.5 mm	80	81				79 - 93
	9.5 mm	69	71				59 - 73
	4.75 mm	32	32				26 - 40
	2.36 mm	23	23				16 - 26
	0.6 mm	13	13				7 - 17
(report to the tenth)	0.075 mm	2.6	2.6				0 - 8
Relative Compaction:	CT 375	95.9	95.2				≥ 94%
Test Max. Density	CT 375	2.24					NA
Theoretical Max. Density	CT 309	2.369					NA
Air Voids:	CT 367	5.3					
Sand Equivalent:	CT 217	57					≥ 50
S Value:	CT 366	28					≥ 25
Cleanness Value:	CT 227	84					

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QC Manager: {sign} James Stiady Date: 4/24/03

{print} James Stiady

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DAILY SUMMARY OF QUALITY CONTROL AND PROCESS CONTROL TESTING (Form AF-09)

This form shall be submitted with all daily testing reports. Use additional sheets as necessary.

To: John Williamson ,Resident Engineer

Contract Number: 11-230104 Sheet # : 1 of 15

Co.-Rte.-kp: 11 - SD - 75 - 17.7/28.0 AC Type: Rubberized AC

Mix Design #: 178 KA Job No: 28165

Sample Milestone: 3100 3533 Lot Number: 1

Production Date: 4/24/03 Production Day: 4

Note: Attached copies of all individual test worksheets. Indicate by circling, all test results that are not within the Target Values. Insure sub-lot numbers match test worksheets.

	Sublot numbers	7	8				
Test Title	Test Number	Test Result	Test Result	Test Result	Test Result	Test Result	Target Value & Spec. Limits
Asphalt Content:	CT 379 CT 382	7.1	7.1				6.9 - 7.9
Mix. Moisture Content:	CT 370	0.08	0.07				≤ 1%
Gradation:	CT 202 19 mm	97	97				90 - 100
(per gradation)	12.5 mm	80	80				79 - 93
	9.5 mm	70	70				59 - 73
	4.75 mm	32	33				26 - 40
	2.36 mm	20	20				16 - 26
	0.6 mm	8	9				7 - 17
(report to the tenth)	0.075 mm	1.9	2.2				0 - 8
Relative Compaction:	CT 375	96.3	96.3				≥ 94%
Test Max. Density	CT 375	2.27					NA
Theoretical Max. Density	CT 309	2.389					NA
Air Voids:	CT 367	5.0					
Sand Equivalent:	CT 217	63					≥ 50
S Value:	CT 366	30					≥ 25
Cleanness Value:	CT 227	86					

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QC Manager: {sign} James Stiady Date: 4/25/03

{print} James Stiady

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DAILY SUMMARY OF QUALITY CONTROL AND PROCESS CONTROL TESTING (Form AF-09)

This form shall be submitted with all daily testing reports. Use additional sheets as necessary.

To: John Williamson ,Resident Engineer

Contract Number: 11-230104 Sheet # : 1 of 11

Co.-Rte.-kp: 11 - SD - 75 - 17.7/28.0 AC Type: Rubberized AC

Mix Design #: 178 KA Job No: 28165

Sample Milestone: 4287 Lot Number: 1

Production Date: 4/28/03 Production Day: 5

Note: Attached copies of all individual test worksheets. Indicate by circling, all test results that are not within the Target Values. Insure sub-lot numbers match test worksheets.

	Sublot numbers	9					
Test Title	Test Number	Test Result	Test Result	Test Result	Test Result	Test Result	Target Value & Spec. Limits
Asphalt Content:	CT 379 CT 382	7.6					6.9 - 7.9
Mix. Moisture Content:	CT 370	0.07					≤ 1%
Gradation:	CT 202 19 mm	98					90 - 100
(per gradation)	12.5 mm	79					79 - 93
	9.5 mm	69					59 - 73
	4.75 mm	33					26 - 40
	2.36 mm	21					16 - 26
	0.6 mm	9					7 - 17
(report to the tenth)	0.075 mm	2.9					0 - 8
Relative Compaction:	CT 375	95.2					≥ 94%
Test Max. Density	CT 375	2.27					NA
Theoretical Max. Density	CT 309	2.388					NA
Air Voids:	CT 367	4.8					
Sand Equivalent:	CT 217	67					≥ 50
S Value:	CT 366	29					≥ 25
Cleanness Value:	CT 227	86					

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QC Manager: {sign} James Stiady Date: 4/29/03

{print} James Stiady

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DAILY SUMMARY OF QUALITY CONTROL AND PROCESS CONTROL TESTING (Form AF-09)

This form shall be submitted with all daily testing reports. Use additional sheets as necessary.

To: John Williamson ,Resident Engineer

Contract Number: 11-230104 Sheet # : 1 of 15

Co.-Rte.-kp: 11 - SD - 75 - 17.7/28.0 AC Type: Rubberized AC

Mix Design #: 178 KA Job No: 28165

Sample Milestone: 5577 6470 Lot Number: 1

Production Date: 4/30/03 Production Day: 7

Note: Attached copies of all individual test worksheets. Indicate by circling, all test results that are not within the Target Values. Insure sub-lot numbers match test worksheets.

	Sublot numbers	12	13						
Test Title	Test Number	Test Result	Test Result	Test Result	Test Result	Test Result	Target Value & Spec. Limits		
Asphalt Content:	CT 379 CT 382	7.2	7.3				6.9	-	7.9
Mix. Moisture Content:	CT 370	0.08	0.06				≤ 1%		
Gradation:	CT 202 19 mm	97	97				90	-	100
(per gradation)	12.5 mm	80	80				79	-	93
	9.5 mm	69	68				59	-	73
	4.75 mm	34	34				26	-	40
	2.36 mm	22	21				16	-	26
	0.6 mm	8	9				7	-	17
(report to the tenth)	0.075 mm	2.2	2.2				0	-	8
Relative Compaction:	CT 375	95.2	94.5				≥ 94%		
Test Max. Density	CT 375	2.26					NA		
Theoretical Max. Density	CT 309	2.385					NA		
Air Voids:	CT 367	5.2							
Sand Equivalent:	CT 217	60					≥ 50		
S Value:	CT 366	34					≥ 25		
Cleanness Value:	CT 227	89							

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QC Manager: {sign} James Stiady Date: 5/1/03

{print} James Stiady

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DAILY SUMMARY OF QUALITY CONTROL AND PROCESS CONTROL TESTING (Form AF-09)

This form shall be submitted with all daily testing reports. Use additional sheets as necessary.

To: John Williamson ,Resident Engineer
Sheet # : 1 of 15
Contract Number: 11-230104
AC Type: Rubberized AC
Co.-Rte.-kp: 11 - SD - 75 - 17.7/28.0
KA Job No: 28165
Mix Design #: 178
Sample Milestone: 5577 6470
Lot Number: 1
Production Date: 4/30/03
Production Day: 7
Note: Attached copies of all individual test worksheets. Indicate by circling, all test results that are not within the Target Values. Insure sub-lot numbers match test worksheets.

	Sublot numbers	12	13				
Test Title	Test Number	Test Result	Test Result	Test Result	Test Result	Test Result	Target Value & Spec. Limits
Asphalt Content:	CT 379 CT 382	7.2	7.3				6.9 - 7.9
Mix. Moisture Content:	CT 370	0.08	0.06				≤ 1%
Gradation:	CT 202 19 mm	97	97				90 - 100
(per gradation)	12.5 mm	80	80				79 - 93
	9.5 mm	69	68				59 - 73
	4.75 mm	34	34				26 - 40
	2.36 mm	22	21				16 - 26
	0.6 mm	8	9				7 - 17
(report to the tenth)	0.075 mm	2.2	2.2				0 - 8
Relative Compaction:	CT 375	95.2	94.5				≥ 94%
Test Max. Density	CT 375	2.26					NA
Theoretical Max. Density	CT 309	2.385					NA
Air Voids:	CT 367	5.2					
Sand Equivalent:	CT 217	60					≥ 50
S Value:	CT 366	34					≥ 25
Cleanness Value:	CT 227	89					

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QC Manager: {sign} James Stiady Date: 5/1/03

{print} James Stiady

Kleinfelder, Inc. 5015 Shoreham Place, San Diego, CA 92122. Ph:858-320-2000. Fax:858-320-2001

DAILY SUMMARY OF QUALITY CONTROL AND PROCESS CONTROL TESTING (Form AF-09)

This form shall be submitted with all daily testing reports. Use additional sheets as necessary.

To: John Williamson ,Resident Engineer
Contract Number: 11-230104 Sheet # : 1 of 15
Co.-Rte.-kp: 11 - SD - 75 - 17.7/28.0 AC Type: Rubberized AC
Mix Design #: 178 KA Job No: 28165
Sample Milestone: 6757 7041 Lot Number: 1
Production Date: 5/1/03 Production Day: 8
Note: Attached copies of all individual test worksheets. Indicate by circling, all test results that are not within the Target Values. Insure sub-lot numbers match test worksheets.

	Sublot numbers	14	15				
Test Title	Test Number	Test Result	Test Result	Test Result	Test Result	Test Result	Target Value & Spec. Limits
Asphalt Content:	CT 379 CT 382	7.6	7.3				6.9 - 7.9
Mix. Moisture Content:	CT 370	0.07	0.06				≤ 1%
Gradation:	CT 202 19 mm	98	97				90 - 100
(per gradation)	12.5 mm	80	79				79 - 93
	9.5 mm	69	69				59 - 73
	4.75 mm	37	36				26 - 40
	2.36 mm	22	21				16 - 26
	0.6 mm	9	9				7 - 17
(report to the tenth)	0.075 mm	2	2.2				0 - 8
Relative Compaction:	CT 375	96.9	97.4				≥ 94%
Test Max. Density	CT 375	2.22					NA
Theoretical Max. Density	CT 309	2.369					NA
Air Voids:	CT 367	6.3					
Sand Equivalent:	CT 217	67					≥ 50
S Value:	CT 366	31					≥ 25
Cleanness Value:	CT 227	89					

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QC Manager: {sign} James Stiady Date: 5/2/03
{print} James Stiady

Kleinfelder, Inc. 5015 Shoreham Place, San Diego, CA 92122. Ph:858-320-2000. Fax:858-320-2001

DAILY SUMMARY OF QUALITY CONTROL AND PROCESS CONTROL TESTING (Form AF-09)

This form shall be submitted with all daily testing reports. Use additional sheets as necessary.

To: John Williamson ,Resident Engineer
Contract Number: 11-230104 Sheet # : 1 of 15
Co.-Rte.-kp: 11 - SD - 75 - 17.7/28.0 AC Type: Rubberized AC
Mix Design #: 178 KA Job No: 28165
Sample Milestone: 7693 8187 Lot Number: 1
Production Date: 5/5/03 Production Day: 9
Note: Attached copies of all individual test worksheets. Indicate by circling, all test results that are not within the Target Values. Insure sub-lot numbers match test worksheets.

	Sublot numbers	16	17				
Test Title	Test Number	Test Result	Test Result	Test Result	Test Result	Test Result	Target Value & Spec. Limits
Asphalt Content:	CT 379 CT 382	7.4	6.9				6.9 - 7.9
Mix. Moisture Content:	CT 370	0.07	0.06				≤ 1%
Gradation:	CT 202 19 mm	97	97				90 - 100
(per gradation)	12.5 mm	81	82				79 - 93
	9.5 mm	69	70				59 - 73
	4.75 mm	33	35				26 - 40
	2.36 mm	22	21				16 - 26
	0.6 mm	10	10				7 - 17
(report to the tenth)	0.075 mm	2.0	2.2				0 - 8
Relative Compaction:	CT 375	94.1	94.5				≥ 94%
Test Max. Density	CT 375	2.27					NA
Theoretical Max. Density	CT 309	2.386					NA
Air Voids:	CT 367	5.0					
Sand Equivalent:	CT 217	62					≥ 50
S Value:	CT 366	35					≥ 25
Cleanness Value:	CT 227	86					

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QC Manager: {sign} James Stiady Date: 5/6/03
{print} James Stiady

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DAILY SUMMARY OF QUALITY CONTROL AND PROCESS CONTROL TESTING (Form AF-09)

This form shall be submitted with all daily testing reports. Use additional sheets as necessary.

To: John Williamson ,Resident Engineer

Contract Number: 11-230104 Sheet # : 1 of 15

Co.-Rte.-kp: 11 - SD - 75 - 17.7/28.0 AC Type: Rubberized AC

Mix Design #: 178 KA Job No: 28165

Sample Milestone: 8655 9356 Lot Number: 1

Production Date: 5/6/03 Production Day: 10

Note: Attached copies of all individual test worksheets. Indicate by circling, all test results that are not within the Target Values. Insure sub-lot numbers match test worksheets.

	Sublot numbers	18	19				
Test Title	Test Number	Test Result	Test Result	Test Result	Test Result	Test Result	Target Value & Spec. Limits
Asphalt Content:	CT 379 CT 382	6.9	7.3				6.9 - 7.9
Mix. Moisture Content:	CT 370	0.07	0.08				≤ 1%
Gradation:	CT 202 19 mm	97	97				90 - 100
(per gradation)	12.5 mm	83	82				79 - 93
	9.5 mm	69	69				59 - 73
	4.75 mm	37	33				26 - 40
	2.36 mm	21	22				16 - 26
	0.6 mm	9	10				7 - 17
(report to the tenth)	0.075 mm	2.2	2.4				0 - 8
Relative Compaction:	CT 375	94.1	94.2				≥ 94%
Test Max. Density	CT 375	2.28					NA
Theoretical Max. Density	CT 309	2.378					NA
Air Voids:	CT 367	3.9					
Sand Equivalent:	CT 217	62					≥ 50
S Value:	CT 366	35					≥ 25
Cleanness Value:	CT 227	89					

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QC Manager: {sign} James Stiady Date: 5/7/03

{print} James Stiady

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DAILY SUMMARY OF QUALITY CONTROL AND PROCESS CONTROL TESTING (Form AF-09)

This form shall be submitted with all daily testing reports. Use additional sheets as necessary.

To: John Williamson ,Resident Engineer
Contract Number: 11-230104 Sheet # : 1 of 19
Co.-Rte.-kp: 11 - SD - 75 - 17.7/28.0 AC Type: Rubberized AC
Mix Design #: 178 KA Job No: 28165
Sample Milestone: 9524 10127 10823 Lot Number: 1
Production Date: 5/7/03 Production Day: 11
Note: Attached copies of all individual test worksheets. Indicate by circling, all test results that are not within the Target Values. Insure sub-lot numbers match test worksheets.

	Sublot numbers	20	21	22			Target Value & Spec. Limits
Test Title	Test Number	Test Result	Test Result	Test Result	Test Result	Test Result	
Asphalt Content:	CT 379 CT 382	7.3	7.5	7.2			6.9 - 7.9
Mix. Moisture Content:	CT 370	0.08	0.07	0.06			≤ 1%
Gradation:	CT 202 19 mm	97	97	97			90 - 100
(per gradation)	12.5 mm	81	82	82			79 - 93
	9.5 mm	69	71	69			59 - 73
	4.75 mm	32	32	34			26 - 40
	2.36 mm	21	20	21			16 - 26
	0.6 mm	10	9	10			7 - 17
(report to the tenth)	0.075 mm	2.4	2.2	2.4			0 - 8
Relative Compaction:	CT 375	95.7	94.6	94.3			≥ 94%
Test Max. Density	CT 375	2.26					NA
Theoretical Max. Density	CT 309	2.370					NA
Air Voids:	CT 367	4.7					
Sand Equivalent:	CT 217	61					≥ 50
S Value:	CT 366	32					≥ 25
Cleanness Value:	CT 227	87					

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QC Manager: {sign} James Stiady Date: 5/8/03
{print} James Stiady

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DAILY SUMMARY OF QUALITY CONTROL AND PROCESS CONTROL TESTING (Form AF-09)

This form shall be submitted with all daily testing reports. Use additional sheets as necessary.

To: John Williamson ,Resident Engineer
Sheet # : 1 of 11
Contract Number: 11-230104
AC Type: Rubberized AC
Co.-Rte.-kp: 11 - SD - 75 - 17.7/28.0
KA Job No: 28165
Mix Design #: 178
Sample Milestone: 11064
Lot Number: 1
Production Date: 5/8/03
Production Day: 12

Note: Attached copies of all individual test worksheets. Indicate by circling, all test results that are not within the Target Values. Insure sub-lot numbers match test worksheets.

	Sublot numbers	23							
Test Title	Test Number	Test Result	Test Result	Test Result	Test Result	Test Result	Target Value & Spec. Limits		
Asphalt Content:	CT 379 CT 382	7.1					6.9	-	7.9
Mix. Moisture Content:	CT 370	0.07					≤ 1%		
Gradation:	CT 202 19 mm	97					90	-	100
(per gradation)	12.5 mm	83					79	-	93
	9.5 mm	69					59	-	73
	4.75 mm	34					26	-	40
	2.36 mm	21					16	-	26
	0.6 mm	9					7	-	17
(report to the tenth)	0.075 mm	2.2					0	-	8
Relative Compaction:	CT 375	94.5					≥ 94%		
Test Max. Density	CT 375	2.27					NA		
Theoretical Max. Density	CT 309	2.378					NA		
Air Voids:	CT 367	4.6							
Sand Equivalent:	CT 217	65					≥ 50		
S Value:	CT 366	30					≥ 25		
Cleanness Value:	CT 227	89							

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QC Manager: {sign} James Stiady Date: 5/9/03

{print} James Stiady

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DAILY SUMMARY OF QUALITY CONTROL AND PROCESS CONTROL TESTING (Form AF-09)

This form shall be submitted with all daily testing reports. Use additional sheets as necessary.

To: John Williamson ,Resident Engineer
Contract Number: 11-230104 Sheet #: 1 of 15
Co.-Rte.-kp: 11 - SD - 75 - 17.7/28.0 AC Type: Rubberized AC
Mix Design #: 178 KA Job No: 28165
Sample Milestone: 12364 12508 Lot Number: 1
Production Date: 5/12/03 Production Day: 14
Note: Attached copies of all individual test worksheets. Indicate by circling, all test results that are not within the Target Values. Insure sub-lot numbers match test worksheets.

	Sublot numbers	25	26						
Test Title	Test Number	Test Result	Test Result	Test Result	Test Result	Test Result	Target Value & Spec. Limits		
Asphalt Content:	CT 379 CT 382	6.9	7.6				6.9	-	7.9
Mix. Moisture Content:	CT 370	0.06	0.07				≤ 1%		
Gradation:	CT 202 19 mm	97	98				90	-	100
(per gradation)	12.5 mm	83	83				79	-	93
	9.5 mm	69	69				59	-	73
	4.75 mm	33	34				26	-	40
	2.36 mm	20	20				16	-	26
	0.6 mm	9	10				7	-	17
(report to the tenth)	0.075 mm	3.0	3.0				0	-	8
Relative Compaction:	CT 375	94.1	95.5				≥ 94%		
Test Max. Density	CT 375	2.24					NA		
Theoretical Max. Density	CT 309	2.375					NA		
Air Voids:	CT 367	5.5							
Sand Equivalent:	CT 217	65					≥ 50		
S Value:	CT 366	29					≥ 25		
Cleanness Value:	CT 227	84							

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QC Manager: {sign} James Stiady Date: 5/13/03
{print} James Stiady

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DAILY SUMMARY OF QUALITY CONTROL AND PROCESS CONTROL TESTING (Form AF-09)

This form shall be submitted with all daily testing reports. Use additional sheets as necessary.

To: John Williamson ,Resident Engineer
Contract Number: 11-230104 Sheet # : 1 of 11
Co.-Rte.-kp: 11 - SD - 75 - 17.7/28.0 AC Type: Rubberized AC
Mix Design #: 178 KA Job No: 28165
Sample Milestone: 13294 Lot Number: 1
Production Date: 5/13/03 Production Day: 15
Note: Attached copies of all individual test worksheets. Indicate by circling, all test results that are not within the Target Values. Insure sub-lot numbers match test worksheets.

	Sublot numbers	27							
Test Title	Test Number	Test Result	Test Result	Test Result	Test Result	Test Result	Target Value & Spec. Limits		
Asphalt Content:	CT 379 CT 382	7.2					6.9	-	7.9
Mix. Moisture Content:	CT 370	0.06					≤ 1%		
Gradation:	CT 202 19 mm	98					90	-	100
(per gradation)	12.5 mm	82					79	-	93
	9.5 mm	70					59	-	73
	4.75 mm	34					26	-	40
	2.36 mm	20					16	-	26
	0.6 mm	10					7	-	17
(report to the tenth)	0.075 mm	2.6					0	-	8
Relative Compaction:	CT 375	95.0					≥ 94%		
Test Max. Density	CT 375	2.27					NA		
Theoretical Max. Density	CT 309	2.380					NA		
Air Voids:	CT 367	4.7							
Sand Equivalent:	CT 217	64					≥ 50		
S Value:	CT 366	31					≥ 25		
Cleanness Value:	CT 227	86							

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QC Manager: {sign} James Stiady Date: 5/14/03
{print} James Stiady

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DAILY SUMMARY OF QUALITY CONTROL AND PROCESS CONTROL TESTING (Form AF-09)

This form shall be submitted with all daily testing reports. Use additional sheets as necessary.

To: John Williamson ,Resident Engineer
Contract Number: 11-230104 Sheet # : 1 of 11
Co.-Rte.-kp: 11 - SD - 75 - 17.7/28.0 AC Type: Rubberized AC
Mix Design #: 178 KA Job No: 28165
Sample Milestone: 13916 Lot Number: 1
Production Date: 5/14/03 Production Day: 16
Note: Attached copies of all individual test worksheets. Indicate by circling, all test results that are not within the Target Values. Insure sub-lot numbers match test worksheets.

	Sublot numbers	28					
Test Title	Test Number	Test Result	Test Result	Test Result	Test Result	Test Result	Target Value & Spec. Limits
Asphalt Content:	CT 379 CT 382	7.2					6.9 - 7.9
Mix. Moisture Content:	CT 370	0.08					≤ 1%
Gradation:	CT 202 19 mm	97					90 - 100
(per gradation)	12.5 mm	82					79 - 93
	9.5 mm	70					59 - 73
	4.75 mm	35					26 - 40
	2.36 mm	21					16 - 26
	0.6 mm	10					7 - 17
(report to the tenth)	0.075 mm	2.4					0 - 8
Relative Compaction:	CT 375	94.7					≥ 94%
Test Max. Density	CT 375	2.26					NA
Theoretical Max. Density	CT 309	2.384					NA
Air Voids:	CT 367	5.1					
Sand Equivalent:	CT 217	63					≥ 50
S Value:	CT 366	30					≥ 25
Cleanness Value:	CT 227	86					

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QC Manager: {sign} James Stiady Date: 5/15/03
{print} James Stiady

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DAILY SUMMARY OF QUALITY CONTROL AND PROCESS CONTROL TESTING (Form AF-09)

This form shall be submitted with all daily testing reports. Use additional sheets as necessary.

To: John Williamson ,Resident Engineer
Contract Number: 11-230104 Sheet # : 1 of 11
Co.-Rte.-kp: 11 - SD - 75 - 17.7/28.0 AC Type: Rubberized AC
Mix Design #: 178 KA Job No: 28165
Sample Milestone: 14190 Lot Number: 1
Production Date: 5/15/03 Production Day: 17
Note: Attached copies of all individual test worksheets. Indicate by circling, all test results that are not within the Target Values. Insure sub-lot numbers match test worksheets.

	Sublot numbers	29					
Test Title	Test Number	Test Result	Test Result	Test Result	Test Result	Test Result	Target Value & Spec. Limits
Asphalt Content:	CT 379 CT 382	7.2					6.9 - 7.9
Mix. Moisture Content:	CT 370	0.07					≤ 1%
Gradation:	CT 202 19 mm	97					90 - 100
(per gradation)	12.5 mm	83					79 - 93
	9.5 mm	70					59 - 73
	4.75 mm	35					26 - 40
	2.36 mm	20					16 - 26
	0.6 mm	10					7 - 17
(report to the tenth)	0.075 mm	2.4					0 - 8
Relative Compaction:	CT 375	95.5					≥ 94%
Test Max. Density	CT 375	2.26					NA
Theoretical Max. Density	CT 309	2.376					NA
Air Voids:	CT 367	4.9					
Sand Equivalent:	CT 217	63					≥ 50
S Value:	CT 366	30					≥ 25
Cleanness Value:	CT 227	86					

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QC Manager: {sign} James Stiady Date: 5/16/03
{print} James Stiady

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DAILY SUMMARY OF QUALITY CONTROL AND PROCESS CONTROL TESTING (Form AF-09)

This form shall be submitted with all daily testing reports. Use additional sheets as necessary.

To: John Williamson ,Resident Engineer

Contract Number: 11-230104 Sheet # : 1 of 11

Co.-Rte.-kp: 11 - SD - 75 - 17.7/28.0 AC Type: Rubberized AC

Mix Design #: 178 KA Job No: 28165

Sample Milestone: 14645 Lot Number: 1

Production Date: 10/9/03 Production Day: 18

Note: Attached copies of all individual test worksheets. Indicate by circling, all test results that are not within the Target Values. Insure sub-lot numbers match test worksheets.

	Sublot numbers	30					
Test Title	Test Number	Test Result	Test Result	Test Result	Test Result	Test Result	Target Value & Spec. Limits
Asphalt Content:	CT 379 CT 382	7.2					6.9 - 7.9
Mix. Moisture Content:	CT 370	0.06					≤ 1%
Gradation:	CT 202 19 mm						90 - 100
(per gradation)	12.5 mm						79 - 93
	9.5 mm						59 - 73
	4.75 mm						26 - 40
	2.36 mm						16 - 26
	0.6 mm						7 - 17
(report to the tenth)	0.075 mm						0 - 8
Relative Compaction:	CT 375	94.4					≥ 94%
Test Max. Density	CT 375	2.25					NA
Theoretical Max. Density	CT 309	2.379					NA
Air Voids:	CT 367	5.4					
Sand Equivalent:	CT 217						≥ 50
S Value:	CT 366	35					≥ 25
Cleanness Value:	CT 227						

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QC Manager: {sign} James Stiady Date: 10/10/03

{print} James Stiady

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